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2008_01

2008 SAMSUNG ELECTRONICS Video Security Systems

2008 GENERAL CATALOGUE

SAMSUNG

Video Security Systems

SAMSUNG ELECTRONICS

* Design and specifications are subject to change without notice

SAMSUNG ELECTRONICS CO., LTD.
VSS marketing, 416, Maetan 3 Dong, YeongTong-Gu, Suwon City, Kyeonggi-Do, Korea, 443-742
Tel: +82-31-277-3342~3347 Fax: +82-31-277-6597 http://www.samsungsecurity.com

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CAMERA

Box Type & Zoom Lens

SCC-131B/101BP 15
SCC-1311/1011P 16
SCC-B2391/B2091P 17
SCC-B2303/B2003P 18
SCC-B2305/B2005P 19
SCC-B2307P/B2007P 20
SCC-A2313/A2013P 21
SCC-B2311/B2011P 22
SCC-B2313/B2315/B2013P/B2015P 24
SCC-C4201/C4301 25
SCC-C4203A/C4303A 26
SCC-C4205/C4305 27
SCC-C4207/C4307 28
SCC-C4233/C4333/C4235/C4335 30
SCC-B9221 31

IR

SCC-B9270P 32
SCC-B9371/B9372P/B9373 33
SCC-B9374 34

Dome

SCC-B5203 35
SCC-B5310/B5311/B5313/B5315 36
SCC-B5352/B5353/B5354/B5355 37
SCC-B5392/B5393/B5394/B5395 38
SCC-931T 39
SCC-C9302(F) 40

SmartDome

SCC-641/643A 42
SCC-C6403 43
SCC-C6405 45
SCC-C6407 46
SCC-C6433/C6435 48
SCC-C7433/C7435 50

Accessories

SHG-120/220 51
SHG-222 52
SADT-100WM/101WM/102WM 53
SADT-103WM/104WM 54
SADT-100CM/110CM/100PM 55
SADT-100HM 56
SBR-100DCM 57
SADT-100EC/101EC 58

MONITOR

FLAT COLOR MONITOR

SMC-150/152F 62
SMC-210/212F 63
SMC-213/214 64

LCD MONITOR

SMT-1721/1921 65
SMT-1722/1922 66
SMT-3211/4011 67

DVR

Standalone DVR

SHR-2040/2042 74
SHR-2080/2082 75
SHR-2160/2162 76
SHR-4081/4160 79
SHR-5040/5042 82
SHR-5080/5082 83
SHR-5160/5162 84
SHR-7080/7082 85
SHR-7160/7162 86
SHR-8080/8082 87
SHR-8160/8162 88

PC Based DVR

SPR-9716/9816 89

NETWORK

Network Camera

SNC-B2315 92
SNC-B5395 94
SNC-M300 96
SNC-C6475 98

Encoder

SNT-1010 100

VMS

NET-i S/W 102

CONTROLLER

SSC-1000 104
SSC-5000 105

EZ View

SMT-190DN 107

The Best Security Choice-

Samsung,
Making the Difference!

Based on the state of art advanced electronics technologies and global market expertise, Samsung Electronics has engineered to build the best Video Security Systems to satisfy various types of needs and to meet different requirements of the customers. Samsung VSS has shown diversified products lineup with the best quality and cutting edge competitiveness in the market.

Samsung's global market proven advanced technologies- semiconductor, network & communication systems, image technologies, displays and utilized consumer electronics enable to build world's best video security systems of Samsung. Samsung Electronics, a Digital Frontier, has proudly shown its best products and pursues to be loyal performer to its customers. As always, Samsung Electronics will seek for its better future with best technologies and best products, while hearing customer's true voices.

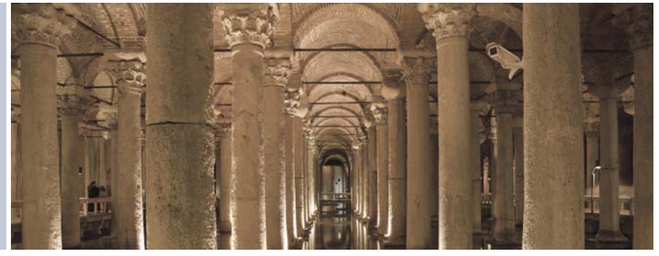
HALT
(Highly Accelerated Life Test)

We ensure product reliability by eliminating potential quality defects in advance,through the use of a variety of high-level stress tests relating to temperature, vibration and power.

Drop Test
(Packing Drop Test)

We minimize the possibility of damage occurring during shipping by performing tests according to international standards, which simulate the types of situations that can occur during product distribution.

• Relevant Specifications : IEC 60068-2-32 / KSA 1011 / KSC 0243



Electronic Test
(Electro-static Test)

We only ship products after securing their electronic reliability by performing an electro-static test, which verifies the electrical tolerances and normal operation of parts after static electricity is applied.

• Relevant Specifications : IEC 1000-4-2 / KSC 0263

Analog/Digital Signal Measurement
(Electromagnetic Interference Test)

We ship products after testing them to ensure that they do not cause the malfunction of other electronic products through their electrical signals. (EMI)

• Relevant Specifications : KSC 6202KSC 6202

Temp & Humidity Chamber
(Environmental tests for high-temperature/ low-temperature/high-humidity)

We ensure that our products operate normally under any environmental conditions by conducting a variety of environmental tests.

• Relevant Specifications : IEC 60068-2-14 / KSC 0225

PRODUCT **Line Up**

Video Security System

CAMERA

Box Type & Zoom Lens

SCC-131B/101BP
1/3" High Resolution, Color Digital Camera — 15P

SCC-B1311/B1011P NEW
High Resolution Color Camera — 16P

SCC-B2391/B2091P
1/3" 540 TV Lines, Day & Night Color Camera — 17P

SCC-B2303/B2003P
1/3" High Resolution, Day & Night Color Digital Camera — 18P

SCC-B2305/B2005P
1/3" High Resolution, WDR, Day & Night Color Digital Camera — 19P

SCC-B2307P/B2007P
1/3" Ex-view High Resolution, Day & Night Camera — 20P

SCC-A2313/A2013P
1/2" High Resolution Day & Night Camera — 21P

SCC-B2311/B2011P
1/3" High Resolution Day & Night Camera — 22P · 23P

SCC-B2313/B2315/B2013P/B2015P
1/3" High Resolution WDR Color Camera — 24P

SCC-C4201/C4301
1/4" Zoom Lens Camera — 25P

SCC-C4203A/C4303A
1/4" 22x Zoom, Day & Night Camera — 26P

SCC-C4205/C4305
22x Power Zoom, Day & Night, WDR Camera — 27P

SCC-C4207/C4307
1/4" 32x Zoom, Day & Night, WDR Camera — 28P · 29P

SCC-C4233/C4333 NEW
High Resolution Day & Night Zoom Camera — 30P

SCC-C4235/C4335 NEW
High Resolution Day & Night, WDR Zoom Camera — 30P

SCC-B9221 NEW
Bullet Type Camera — 31P

IR

SCC-B9270P NEW
Bullet type IR LED Day & Night Camera — 32P

SCC-B9371/B9372P/B9373 NEW
Bullet type IR LED Day & Night Camera — 33P

SCC-B9374 NEW
Anti-Vandal Dome IR LED Day & Night Camera — 34P

Dome

SCC-B5203
1/3" Color Fixed Dome Camera — 35P

SCC-B5310/B5311/B5313/B5315
1/3" Color Fixed Dome Camera — 36P

SCC-B5352/B5353/B5354/B5355
1/3" Color Vari-Focal Dome Camera — 37P

SCC-B5392/B5393/B5394/B5395
1/3" Color Vari-Focal Anti Vandal Dome Camera — 38P

SCC-931T
Anti Vandal Dome Camera — 39P

SCC-C9302(F)
Anti Vandal 3-Axis Day & Night, WDR Dome Camera — 40P · 41P

SmartDome

SCC-641/643A
22x Zoom SmartDome Camera — 42P

SCC-C6403
32x Zoom Day & Night SmartDome Camera — 43P · 44P

SCC-C6405
220x Power Zoom, Day & Night, WDR SmartDome Camera — 45P

SCC-C6407
32x Zoom Day & Night, WDR SmartDome Camera — 46P · 47P

SCC-C6433/C6435 NEW
High Resolution SmartDome Camera — 48P · 49P

SCC-C7433/C7435 NEW
High Resolution SmartDome Camera — 50P

Accessories

SHG-120/220
In/Outdoor Housing — 51P

SHG-222 NEW
Outdoor Housing — 52P

CAMERA

SADT-100WM/101WM/102WM
Wall Mount Adaptor — 53P

SADT-103WM/104WM NEW
Wall Mount Adaptor — 54P

SADT-100CM/110CM/100PM
Ceiling Mount / Corner Mount / Pole Mount Adaptor — 55P

SADT-100HM NEW
Hanging Mout Adaptor — 56P

SBR-100DCM
Ceiling-Mount Bracket — 57P

SADT-100EC/101EC NEW
Ceiling Mount Bracket — 58P

MONITOR

Flat Color

SMC-150/152F
15" Flat Color Monitor — 62P

SMC-210/212F
21" Flat Color Monitor — 63P

SMC-213/214
Ultra Slim 21" CRT Monitor — 64P

LCD

SMT-1721/1921
17"/19" TFT-LCD Monitor — 65P

SMT-1722/1922 NEW
17"/19" TFT-LCD Monitor — 66P

SMT-3211/4011 NEW
Professional Large LCD Monitor — 67P

DVR

Standalone DVR

SHR-2040/2042
4Ch Real-time Standalone DVR — 74P

SHR-2080/2082
8Ch Standalone DVR — 75P

SHR-2160/2162
16Ch Standalone DVR — 76P

SHR-4081/4160
8/16Ch Real-time Standalone DVR — 79P

DVR

SHR-5040/5042
4Ch Standalone DVR — 82P

SHR-5080/5082
8Ch Standalone DVR — 83P

SHR-5160/5162
16Ch Standalone DVR — 84P

SHR-7080/7082 NEW
8Ch CIF Resolution Real-time Standalone DVR — 85P

SHR-7160/7162 NEW
16Ch CIF Resolution Real-time Standalone DVR — 86P

SHR-8080/8082 NEW
8Ch CIF Resolution Real-time Standalone DVR — 87P

SHR-8160/8162 NEW
16Ch CIF Resolution Real-time Standalone DVR — 88P

PC Based DVR

SPR-9716/9816 NEW
16Ch PC Based DVR — 89P

NETWORK

Network Camera

SNC-B2315 NEW
Dual Codec D1 Real-time Network Camera — 92P · 93P

SNC-B5395 NEW
Dual Codec Network Anti-Vandal Dome Camera — 94P · 95P

SNC-M300 NEW
3 Mega-pixel Network Camera — 96P · 97P

SCC-C6475
SmartDome Network Camera — 98P · 99P

Encoder

SNT-1010
Dual Codec 1Ch Video Encoder — 100P · 101P

CONTROLLER

SSC-1000
System Controller — 104P

SSC-5000 NEW
TFT Color LCD Touch Screen System Keyboard — 105P

EZ VIEW

SMT-190DN
19" LCD Built-in with DVR, 2 Weather Resistant Cameras, 2 Night Vision Cameras — 107P · 108P

Camera

Box Type & Zoom Lens

SCC-131B/101BP_15
SCC-1311/1011P_16
SCC-B2391/B2091P_17
SCC-B2303/B2003P_18
SCC-B2305/B2005P_19
SCC-B2307P/B2007P_20
SCC-A2313/A2013P_21
SCC-B2311/B2011P_22
SCC-B2313/B2315/B2013P/B2015P_24
SCC-C4201/C4301_25
SCC-C4203A/C4303A_26
SCC-C4205/C4305_27
SCC-C4207/C4307_28
SCC-C4233/C4333/C4235/C4335_30
SCC-B9221_31

IR

SCC-B9270P_32
SCC-B9371/B9372P/B9373_33
SCC-B9374_34

Dome

SCC-B5203_35
SCC-B5310/B5311/B5313/B5315_36
SCC-B5352/B5353/B5354/B5355_37
SCC-B5392/B5393/B5394/B5395_38
SCC-931T_39
SCC-C9302(F)_40

SmartDome

SCC-641/643A_42
SCC-C6403_43
SCC-C6405_45
SCC-C6407_46
SCC-C6433/C6435_48
SCC-C7433/C7435_50

Accessories

SHG-120/220_51
SHG-222_52
SADT-100WM/101WM/102WM_53
SADT-103WM/104WM_54
SADT-100CM/110CM/100PM_55
SADT-100HM_56
SBR-100DCM_57
SADT-100EC/101EC_58

CCD Camera Comparison Chart by Model

Model \ Spec	Imaging Device	Total Pixels	Synchronization Method	Horizontal Resolution	Minimum Scene Illumination	S/N Ratio	Lens	Power Requirment	Day & Night	WDR	Privacy Zone
SCC-131B	1/3"	410K/470K	Int./L.L	520 TV Lines	0.3Lux	50dB	DC/Video	AC24V DC12V	No	No	No
SCC-101BP	1/3"	470K	Int./L.L	520 TV Lines	0.3Lux	50dB	DC/Video	AC220V ~240V	No	No	No
NEW SCC-B1311	1/3"	410K/470K	Int./L.L	540 TV Lines	0.4Lux	50dB	DC/Video	AC24V DC12V	No	No	No
NEW SCC-B1011P	1/3"	470K	Int./L.L	540 TV Lines	0.4Lux	50dB	DC/Video	AC220V	No	No	No
SCC-B2391	1/3"	410K/470K	Int./L.L	540 TV Lines	0.15Lux	50dB	DC/Video	AC24V DC12V	Yes	No	No
SCC-B2091P	1/3"	470K	Int./L.L	540 TV Lines	0.15Lux	50dB	DC/Video	AC220V ~240V	Yes	No	No
SCC-B2303	1/3"	410K/470K	Int./L.L	500 TV Lines	0.001Lux	52dB	DC/Video	AC24V DC12V	Yes	No	No
SCC-B2003P	1/3"	470K	Int./L.L	500 TV Lines	0.001Lux	52dB	DC/Video	AC220V ~240V	Yes	No	No
SCC-B2305	1/3"	410K/470K	Int./L.L	500 TV Lines	0.001Lux	52dB	DC/Video	AC24V DC12V	Yes	Yes	Zone-8 (Solid)
SCC-B2005P	1/3"	470K	Int./L.L	500 TV Lines	0.001Lux	52dB	DC/Video	AC220V ~240V	Yes	Yes	Zone-8 (Solid)
SCC-B2307P	1/3"	470K	Int./L.L	500 TV Lines	0.008Lux	52dB	DC/Video	AC24V DC12V	Yes	Yes	No
SCC-B2007P	1/3"	470K	Int./L.L	500 TV Lines	0.008Lux	52dB	DC/Video	AC220V ~240V	Yes	Yes	No
SCC-A2313	1/2"	410K	Int./L.L	540 TV Lines	0.0001Lux	50dB	DC/Video	AC24V DC12V	Yes	No	Zone-24 (Mosaic)
SCC-A2013P	1/2"	470K	Int./L.L	540 TV Lines	0.0001Lux	50dB	DC/Video	AC220V ~240V	Yes	No	Zone-24 (Mosaic)
SCC-B2311	1/3"	410K	Int./L.L	540 TV Lines	0.0009Lux	50dB	DC/Video	AC24V DC12V	Yes	No	No
SCC-B2011P	1/3"	470K	Int./L.L	540 TV Lines	0.0009Lux	50dB	DC/Video	AC220V ~240V	Yes	No	No
SCC-B2313	1/3"	410K	Int./L.L	540 TV Lines	0.0005Lux	50dB	DC/Video	AC24V DC12V	Yes	No	Zone-24 (Mosaic)
SCC-B2315	1/3"	410K	Int./L.L	540 TV Lines	0.0005Lux	50dB	DC/Video	AC24V DC12V	Yes	Yes	Zone-24 (Mosaic)
SCC-B2013P	1/3"	470K	Int./L.L	540 TV Lines	0.0005Lux	50dB	DC/Video	AC220V ~240V	Yes	Yes	Zone-24 (Mosaic)
SCC-B2015P	1/3"	470K	Int./L.L	540 TV Lines	0.0005Lux	50dB	DC/Video	AC220V ~240V	Yes	Yes	Zone-24 (Mosaic)
SCC-C4201	1/4"	410K/470K	Int.	480 TV Lines	0.005Lux	52dB	22X Zoom (f=3.6~ 79.2mm)	DC12V	No	No	No

CCD Camera Comparison Chart by Model

Model / Spec	Imaging Device	Total Pixels	Synchronization Method	Horizontal Resolution	Minimum Scene Illumination	S/N Ratio	Lens	Power Requirment	Day & Night	WDR	Privacy Zone
SCC-C4301	1/4"	410K/470K	Int./L.L	480 TV Lines	0.005Lux	52dB	22X Zoom (f=3.6~79.2mm)	AC24V DC12V	Yes	No	No
SCC-C4203A	1/4"	410K/470K	Int.	480 TV Lines	0.005Lux	50dB	22X Zoom (f=3.6~79.2mm)	DC12V	Yes	No	No
SCC-C4303A	1/4"	410K/470K	Int./L.L	480 TV Lines	0.005Lux	50dB	22X Zoom (f=3.6~79.2mm)	AC24V DC12V	Yes	No	No
SCC-C4205	1/4"	410K/470K	Int.	480 TV Lines	0.002Lux	50dB	22X Zoom (f=3.6~79.2mm)	DC12V	Yes	No	No
SCC-C4305	1/4"	410K/470K	Int./L.L	480 TV Lines	0.002Lux	50dB	22X Zoom (f=3.6~79.2mm)	AC24V DC12V	Yes	Yes	No
SCC-C4207	1/4"	410K/470K	Int.	480 TV Lines	0.002Lux	50dB	32X Zoom (f=3.55~113mm)	DC12V	Yes	Yes	Zone-8 (Mosaic)
SCC-C4307	1/4"	410K/470K	Int./L.L	480 TV Lines	0.002Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	Yes	Zone-8 (Mosaic)
NEW SCC-C4233	1/4"	410K/470K	Int.	540 TV Lines	0.002Lux	50dB	32X Zoom (f=3.55~113mm)	DC12V	Yes	No	Zone-16 (Mosaic)
NEW SCC-C4235	1/4"	410K/470K	Int.	540 TV Lines	0.001Lux	50dB	32X Zoom (f=3.55~113mm)	DC12V	Yes	Yes	Zone-16 (Mosaic)
NEW SCC-C4333	1/4"	410K/470K	Int./L.L	540 TV Lines	0.002Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V DC12V	Yes	No	Zone-16 (Mosaic)
NEW SCC-C4335	1/4"	410K/470K	Int./L.L	540 TV Lines	0.001Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V DC12V	Yes	Yes	Zone-16 (Mosaic)
NEW SCC-B9221	1/3"	410K	Int.	480 TV Lines	0.3Lux	48dB	f=4.9mm	DC12V	No	No	No
NEW SCC-B9270P	1/3"	320K	Int.	350 TV Lines	0Lux	48dB	f=4.3mm	DC12V	Yes	No	No
NEW SCC-B9371	1/3"	410K/470K	Int.	540 TV Lines	0Lux	48dB	f=3.8~9.5mm	AC24V DC12V	Yes	No	No
NEW SCC-B9372P	1/3"	470K	Int.	540 TV Lines	0Lux	48dB	f=3.8~9.5mm	AC24V DC12V	Yes	No	No
NEW SCC-B9373	1/3"	410K/470K	Int.	540 TV Lines	0Lux	48dB	f=6~50mm	AC24V DC12V	Yes	No	No
SCC-B5203	1/3"	410K/470K	Int.	520 TV Lines	0.3Lux	50dB	f=3.0mm	DC12V	No	No	No
SCC-B5310	1/3"	270K	Int./L.L	330 TV Lines	0.001Lux	50dB	f=3.8mm	AC24V DC12V	Yes	No	No
SCC-B5311	1/3"	410K/470K	Int./L.L	540 TV Lines	0.002Lux	50dB	f=3.8mm	AC24V DC12V	Yes	No	No
SCC-B5313	1/3"	410K/470K	Int./L.L	540 TV Lines	0.002Lux	50dB	f=3.0mm	AC24V DC12V	Yes	No	No
SCC-B5315	1/3"	410K/470K	Int./L.L	540 TV Lines	0.002Lux	50dB	f=8.0mm	AC24V DC12V	Yes	No	No

CCD Camera Comparison Chart by Model

Model / Spec	Imaging Device	Total Pixels	Synchronization Method	Horizontal Resolution	Minimum Scene Illumination	S/N Ratio	Lens	Power Requirment	Day & Night	WDR	Privacy Zone
SCC-B5352	1/3"	410K/470K	Int./L.L	540 TV Lines	0.0009Lux	50dB	f=2.5~6.0mm	AC24V DC12V	Yes	No	No
SCC-B5353	1/3"	410K/470K	Int./L.L	540 TV Lines	0.00009Lux	50dB	f=2.5~6.0mm	AC24V DC12V	Yes	No	No
SCC-B5354	1/3"	410K/470K	Int./L.L	540 TV Lines	0.0009Lux	50dB	f=2.9~10mm	AC24V DC12V	Yes	No	No
SCC-B5355	1/3"	410K/470K	Int./L.L	540 TV Lines	0.00009Lux	50dB	f=2.9~10mm	AC24V DC12V	Yes	No	No
SCC-B5392	1/3"	410K/470K	Int./L.L	540 TV Lines	0.0009Lux	50dB	f=2.5~6.0mm	AC24V DC12V	Yes	No	No
SCC-B5393	1/3"	410K/470K	Int./L.L	540 TV Lines	0.00009Lux	50dB	f=2.5~6.0mm	AC24V DC12V	Yes	No	No
SCC-B5394	1/3"	410K/470K	Int./L.L	540 TV Lines	0.0009Lux	50dB	f=2.9~10mm	AC24V DC12V	Yes	No	No
SCC-B5395	1/3"	410K/470K	Int./L.L	540 TV Lines	0.00009Lux	50dB	f=2.9~10mm	AC24V DC12V	Yes	No	No
SCC-931T	1/4"	410K/470K	Int./L.L	480 TV Lines	0.005Lux	52dB	12X Zoom (f=3.6~43.2mm)	AC24V DC12V	No	No	No
SCC-C9302(F)	1/4"	410K/470K	Int./L.L	480 TV Lines	0.002Lux	52dB	12X Zoom (f=3.6~43.2mm)	AC24V DC12V	Yes	Yes	Zone-8 (Solid)
NEW SCC-B9374	1/3"	410K/470K	Int.	540 TV Lines	0Lux	48dB	f=3.8~9.5mm	AC24V DC12V	Yes	No	No
SCC-641	1/4"	410K/470K	Int./L.L	480 TV Lines	0.01Lux	52dB	22X Zoom (f=3.6~79.2mm)	AC24V	No	No	No
SCC-643A	1/4"	410K/470K	Int./L.L	480 TV Lines	0.003Lux	52dB	22X Zoom (f=3.6~79.2mm)	AC24V	Yes	No	Zone-8 (Solid)
SCC-C6403	1/4"	410K/470K	Int./L.L	480 TV Lines	0.0005Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	No	No
SCC-C6405	1/4"	410K/470K	Int./L.L	480 TV Lines	0.005Lux	50dB	22X Zoom (f=3.6~79.2mm)	AC24V	Yes	Yes	Zone-8 (Mosaic)
SCC-C6407	1/4"	410K/470K	Int./L.L	480 TV Lines	0.002Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	Yes	Zone-8 (Mosaic)
NEW SCC-C6433	1/4"	410K/470K	Int./L.L	540 TV Lines	0.6Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	No	Zone-16
NEW SCC-C6435	1/4"	410K/470K	Int./L.L	540 TV Lines	0.3Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	Yes	Zone-16
NEW SCC-C7433	1/4"	410K/470K	Int./L.L	540 TV Lines	0.6Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	No	Zone-16
NEW SCC-C7435	1/4"	410K/470K	Int./L.L	540 TV Lines	0.3Lux	50dB	32X Zoom (f=3.55~113mm)	AC24V	Yes	Yes	Zone-16

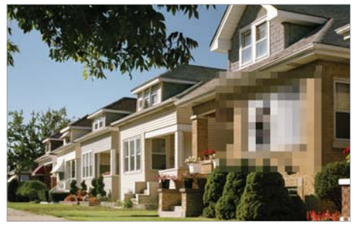
Camera Terms & Features

Video Security Systems

Privacy Zone

A "privacy zone" can be set if you desire to block viewing of specific areas within the picture.

• Privacy Zone OFF



• Privacy Zone ON

WDR (Wide Dynamic Range)

WDR, much more sophisticatly improved Version of BLC, shows two files in one complex image, by utilizing high shutter speed in bright areas and low speed shutter in dark areas. When the camera detects an obvious difference in luminance, rather than showing the whole viewing area at one luminance level, it increases the range of the luminance so that there is no noticeable difference.

• Normal

• WDR

Motion Detection

After a specific area has been selected for monitoring, if movement is detected in that area, the camera will trigger the alarm. When an external alarm device is attached to the camera, user should pay attention to the screen for the alarm triggering. This function is useful if user must monitor multiple screens at the same time.

• Motion Detection OFF

• Motion Detection ON

Day & Night

The Day & Night automatically switches to color mode during the day and to B/W mode during the night depending on the level of illumination which makes it ideally suitable for 24 hours-a-day surveillance. When in B/W mode the light sensitivity is enhanced.

• Day

• Night

DNR (Digital Noise Reduction)

The digital noise reduction (DNR) removes the video noise that occurs in video signals, particularly when Automatic Gain Control is used in low light conditions. Since the Digital Noise Reduction is performed by using the cameras memory, when an object moves, the image can be blurred. However, the Digital Noise Reduction of the camera uses a special Samsung computer code to remove video noise and color noise, regardless of the motion of an object providing a clear image.

• Normal

• DNR

Illumination

By controlling the speed of exposure entering into each picture area, an object can be detected in even low illumination. Samsung Camera utilize highly light sensitive CCDs and maximize performance through the use of Digital Signal Processing.

• General screen

• Low-illumination screen

Camera Terms & Features

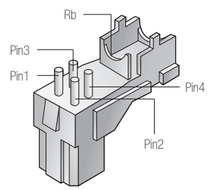
Video Security Systems

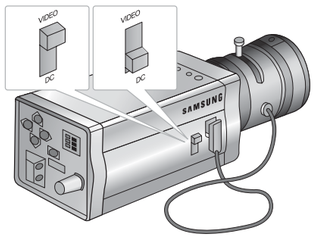
Lens Selection

When using an auto iris lens,

The lens selection switch next to the camera should be set according to the type of auto iris lens. Select 'DC' if the installed lens is a DC-control type, and select 'VIDEO' if it is a video-control type.
Adjust the illumination level with the DC-IRIS VR at the back of the camera when DC-type is selected, or adjust the Illumination level by using the level VR on the lens when video-type is selected.

* When using an AI lens, turn off the ELC switch at the back of the camera.





Pin no.	DC Control Type	VIDEO Control Type
1	Damp (-)	Power (+12V)
2	Damp (+)	N/A
3	Drive (-)	VIDEO Signal
4	Drive (+)	GROUND

When using a manual iris lens,

Open the lens iris completely and turn on the ELC function at the back of the camera.

Camera Back Focus Adjustment

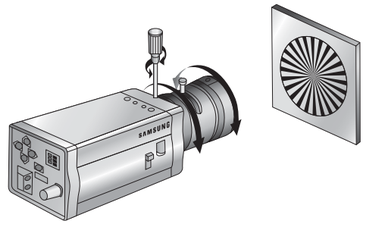
The back focus of the camera is set when the product is shipped from the factory. However, the back focus can be adjusted in the following manner if the focus is not properly set.

For Standard Lens (non-Zoom)

1. The lens should be able to clearly recognize high-definition images such as an object with cross stripes from a distance of 10 meters when the focus ring of the lens is set to infinity(∞).
2. Adjust the focus by turning the control ring of the flange back until the object can be seen clearly under the circumstances described above.
3. Fasten the screw of flange back control ring.

For Zoom Lens

1. Place a high-definition image 3-5m apart from the camera and then turn the focus of the lens as far as possible in the TELE (zoom in) direction so that the image can be seen vividly as possible.
2. Turn the lens zoom as far as possible in the WIDE direction, turning the flange back control ring of the camera so that the object can be seen most vividly.
3. Adjust so that the focus from the TELE side can be vividly matched with the focus from the WIDE side by repeating above steps 1 and 2 2~3 times.
4. Fasten the screw of the flange back control ring.
   The control can be set more accurately if the focus can be adjusted by attaching dark color paper or ND filter to the front lens.



	Flange Back Focusing Distance
C Mount	17.526mm
CS Mount	12.5mm

1/3" High Resolution, Color Digital Camera

SCC-131B/101BP

Features

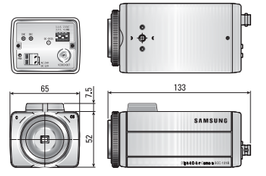
- DSP (Digital Signal Processor)
- 1/3" Super HAD IT CCD (SCC-131B:410K/470K, SCC-101BP:470K)
- Horizontal resolution : 520 TV lines
- Back light compensation circuitry
- External synchronization with line lock
- Accepts 2 types of auto-iris lenses (DC / Video)
- Accepts CS/C-mount without adaptor
- Power input (SCC-101BP:AC220V~240V / SCC-131B(P):AC24V/DC12V)
- Built-in ground fault isolation transformer

Specifications

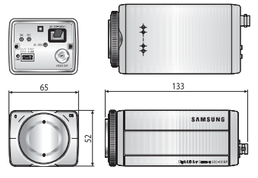
Model		SCC-131B	SCC-131BP	SCC-101BP
Imaging Device		1/3" Super HAD IT CCD		
Effective Pixels		768(H)x494(V)	752(H)x582(V)	
Scanning Method		Interlace/Line lock		
Scanning	Horizontal	15.750Hz	15.625 Hz	
Line Frequency	Vertical	60Hz	50Hz	
Synchronization Method		Internal / Line lock (V PHASE Control)		
Horizontal Resolution		520 TV Lines		
Video Output		VBS 1.0Vp-p		
S/N Ratio		50dB		
Lens		AI(Video/DC)		
Minimum Scene Illumination		0.15(Sens up Off,15IRE)Lux		
Functions	BLC	On		
	AGC	On		
	White Balance	ATW/AWC		
	ELC	Off/On(Max. 1/120Ksec)		
Operating Temperature		-10°C ~ +50°C		
Operating Humidity		Less than 90%		
Power Requirment		AC24V/DC12V Compatible	AC 220V~240V	
Power Consumption		3W	4W	
Weight		450g	550g	
Dimensions		65(W) x 52(H) x 133(D)mm		

Dimensions (unit:mm)

SCC-131B



SCC-101BP



High Resolution Color Camera

SCC-B1311/B1011P NEW

Features

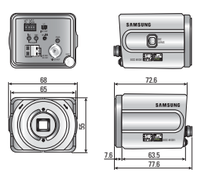
- 1/3" SONY 410K/470K pixels Super-HAD IT CCD
- High resolution : 540 TV lines
- Minimum scene illumination :
  0.4 Lux (F1.2, 50IRE), 0.24 Lux (F1.2, 30IRE), 0.12 Lux (F1.2, 15IRE)
- Internal/line lock (phase control) function
- Auto level control (DC type only)
- Electronic level control (manual lens)
- Back light compensation (on/off)
- Auto white balance (ATW/AWC)
- Flickerless function
- C/CS mount compatible
- SCC-B1311(P) : DC12V & AC24V 60Hz(50Hz)
  SCC-B1011P : AC220V(50Hz)
- SCC-B1311(P) : 60.5(W) x 59.5(H) x 77(D) mm
  SCC-B1011P : 60.5(W) x 59.5(H) x 125.2(D) mm

Specifications

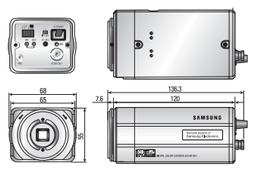
Model		SCC-B1311	SCC-B1011P/SSC-B1311P
Camera Type		High Resolution Color Camera	
Image	Device	1/3" Super-HAD IT CCD	
	Effective Pixels	768 x 494	752 x 582
Minimum Scene Illumination		0.4 Lux (F1.2, 50 IRE), 0.24 Lux (F1.2, 30 IRE), 0.12 Lux(F1.2, 15 IRE)	
Functions	Line Lock	On/Off	
	White Balance	ATW/AWC	
	ELC	On/Off(ALC)	
	BLC	On/Off	
Horizontal Resolution		540 TV Lines	
Video Output		VBS 1.0Vp-p	
S/N Ratio		about 50 dB	
Lens	Mount	C/CS Compatible	
	Lens Drive Type	ALC(DC only)/ELC	
Operating Temperature		-10°C ~ + 50°C	
Operating Humidity		Less than 90%	
Power Requirement		SCC-B1311(P) : AC24V & DC12V / SCC-B1011P : AC220V	
Power Consumption		SCC-B1311(P) : 3W / SCC-B1011P : 3.5W	
Physical Specification	Dimensions	SCC-B1311(P) : 68(W) x 55(H) x 77.1(D)mm	
		SCC-B1011P : 68(W) x 55(H) x 136.3(D)mm	
	Weight	SCC-B1311(P) : 216g / SCC-B1011P : 446g	

Dimensions (unit:mm)

SCC-B1311



SCC-B1011P



1/3" 540 TV Lines, Day & Night Color Camera

SCC-B2391/B2091P

Features

- Day & Night
- Improved image quality through DSP(Digital Signal Processor)
- 1/3" Super HAD IT CCD (SCC-2391 : 410K/470K, SCC-2091P : 470K)
- Horizontal resolution : 540(color)/570(B/W) TV lines
- Back light compensation circuitry
- External synchronization with line lock
- Accepts 2 types of auto - iris lenses (DC / Video)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Power input
  (SCC-B2391(P): AC24V/DC12V, SCC-B2091P : AC220V~240V)

Day & Night

The camera captures optimal images in both Day & Night by switching between color mode and black & white mode according to the level of brightness.

Day

Night

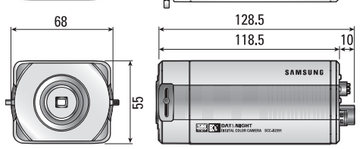
Specifications

Model		SCC-B2391	SCC-B2391P	SCC-B2091P
Imaging Device		1/3" Super HAD IT CCD		
Effective Pixels		768(H)x494(V)	752(H)x582(V)	
Scanning Method		2:1 Interlace		
Scanning Frequency	Horizontal	15.750Hz	15.625Hz	
	Vertical	60Hz	50Hz	
Synchronization Method		Internal/Line lock		
Horizontal Resolution	Color	540 TV Lines		
	B/W	570 TV Lines		
Signal Output		VBS 1.0Vp-p(75 ohm, Composite)		
S/N Ratio		50dB		
Minimum Scene Illumination	Color	0.15(Sens up Off,15IRE)Lux		
	B/W	0.015(Sens up Off,15IRE)Lux		
Functions	Camera ID	Off/On(20Characters, Position Setting)		
	Electronic Shutter	Off, 1/100 ~ 10,000 sec		
	BLC	Off/Bottom/Left/Right/Top/Center/User(Area Setting)		
	AGC	Off/Low/High		
	White Balance	ATW/AWC		
	Day & Night	Auto/EXT		
	ALC	DC Iris Level Control		
	ELC	1Max/100Ksec		
Input/Output	Image Output	BNC		
	Power	Terminal Block (3-pin)		
Operating Temperature		-10°C ~ +50°C		
Operating Humidity		no more than 90% RH		
Power Requirment		AC24V/DC12V Compatible		AC220V~240V
Power Consumption		3W		4W
Weight		450g		550g
Dimensions		68(W) x 55(H) x 128.5(D)mm		

Dimensions (unit:mm)

SCC-B2391

SCC-B2091P



1/3" High Resolution, Day & Night Color Digital Camera

SCC-B2303/B2003P

Features

- Day & Night • DSP (Digital Signal Processor)
- 1/3" Super HAD CCD (SCC-B2303 : 410K/470K, SCC-B2003P : 470K)
- Horizontal resolution : 500(color)/530(B/W) TV lines
- Back light compensation for the various light conditions
- External synchronization with line lock
- Motion detection • On-screen menus (Multi-language)
- Picture in picture on digital zoom
- Accepts 2 types of auto-iris lenses (DC/Video)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Power input (SCC-B2303 : AC24V/DC12V, SCC-B2003P :AC220V~240V)
- Built-in ground fault isolation transformer

Day & Night

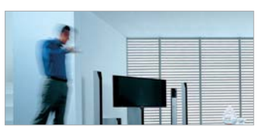
The camera captures optimal images in both Day & Night by switching between color mode and black&white mode according to the level of brightness.

Day

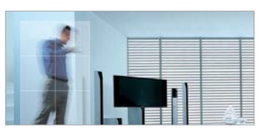
Night

Motion Detection

If movement is detected in the selected area, the camera transmits an alarm signal.



Motion Detection OFF



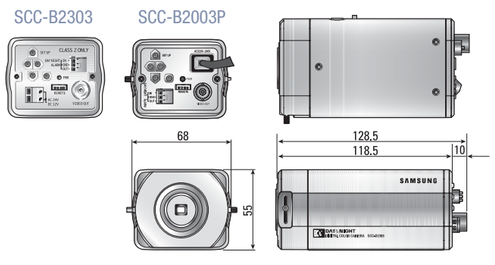
Motion Detection ON

Specifications

Model		SCC-B2303	SCC-B2303P	SCC-B2003P
Imaging Device		1/3" Super HAD IT CCD		
Effective Pixels		768(H)x494(V)	752(H)x582(V)	
Scanning Method		2:1 Interlace		
Scanning	Horizontal	15.750Hz	15.625Hz	
Line Frequency	Vertical	60Hz	50Hz	
Synchronization Method		Internal / Line lock (V PHASE control)		
Horizontal	Color	500 TV Lines		
Resolution	B/W	530 TV Lines		
Signal Output		VBS 1.0Vp-p(75 ohm, composite)		
S/N Ratio		52dB		
Minimum Scene	Color	0.001(Sens up 128x,15IRE)Lux		
Illumination	B/W	0.0001(Sens up Off,15IRE)Lux		
Functions	Camera ID	Off/On(20Characters, Position Setting)		
	Electronic Shutter	1/100~10,000 sec		
	BLC	Off/Bottom/Left/Right/Top/Center/User(Area Setting)		
	AGC	Off/Low/High		
	White Balance	ATW/AWC/Manual (3200°K, 5600°K, R/B Gain Control)		
	PIP	Off/On		
	Motion Detection	Off/On(Level Control, Area Setting)		
	Sens Up	Off/Auto(2x ~ 128x)/Fix(2x ~ 128x)		
	Day & Night	Color/BW/Auto/EXT		
	ALC / ELC	DC Iris Control / Level Control(~ 1/100,000sec)		
Input/Output	Image Output	BNC		
	Power	Terminal Block (3-pin)		
Operating Temperature		-10°C ~ +50°C		
Operating Humidity		No more than 90% RH		
Power Requirment		AC24V / DC12V Compatible		AC220V~240V
Power Consumption		4.5W		5W
Weight		450g		550g
Dimensions		68(W) x 55(H) x 128.5(D)mm		

Dimensions (unit:mm)

SCC-B2303 SCC-B2003P



1/3" High Resolution, WDR, Day & Night Color Digital Camera

SCC-B2305/B2005P

Features

- WDR (Wide Dynamic Range NTSC : 64x, PAL : 80x)
- Day & Night
- DSP (Digital Signal Processor)
- 1/3" Super HAD CCD (SCC-B2305 : 410K/470K, SCC-B2005P : 470K)
- Horizontal resolution : 500(color)/530(B/W) TV Lines
- High sensitivity with a minimum scene illumination
- Back light compensation for the various light conditions
- External synchronization with line lock • 8 privacy zones (privacy mask)
- Motion detection • On-screen menus (Multi-language)
- Accepts 2 types of auto-Iris lenses (DC / Video)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Power input (SCC-B2305 : AC24V/DC12V, SCC-B2005P : AC220V~240V)
- Built-in ground fault isolation transformer

Day & Night

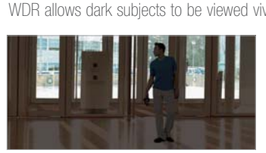
Optimal images are displayed anytime of a day by switching between color mode and black& white mode according to the level of brighness.

Day

Night

WDR (Wide Dynamic Range)

WDR allows dark subjects to be viewed vividly under bright lighting or sunlight.



Normal

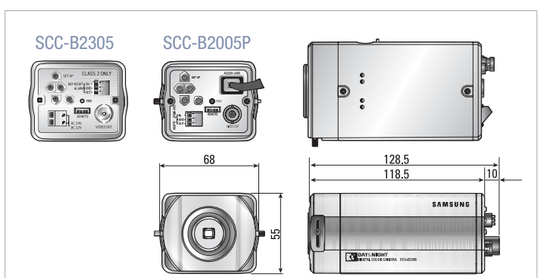
WDR

Specifications

Model		SCC-B2305	SCC-B2305P	SCC-B2005P
Imaging Device		1/3" Super HAD PS CCD		
Effective Pixels		768(H)x494(V)	752(H)x582(V)	
Scanning Method		2:1 Interlace		
Scanning	Horizontal	15.750Hz	15.625Hz	
Line Frequency	Vertical	60Hz	50Hz	
Synchronization Method		Internal / Line lock (V PHASE control)		
Horizontal	Color	500 TV Lines		
Resolution	B/W	530 TV Lines		
Signal Output		VBS 1.0Vp-p(75 ohm, composite)		
S/N Ratio		52dB		
Minimum Scene	Color	0.001(Sens up 160x,15IRE)Lux		
Illumination	B/W	0.0001(Sens up 160x,15IRE)Lux		
Functions	Camera ID	Off/On(20Characters, Position Setting)		
	Electronic Shutter	Off, 1/100 ~ 10,000 sec		
	BLC	Off/Bottom/Left/Right/Top/Center		
	AGC	Off/Low/High		
	White Balance	ATW/AWC/Manual		
	PIP	Off/On		
	Motion Detection	Off/On (Level Control, Area Setting)		
	Sens Up	Off/Auto(2x ~160x)		
	Day & Night	Color/BW/Auto/EXT		
	ALC / ELC	DC Iris Control / Level Control (~ 1/100,000sec)		
Input/Output	Image Output	BNC		
	Power	Terminal Block (3-pin)		
Wide Dynamic Range		64x	80x	
Operating Temperature		-10°C ~ +50°C		
Operating Humidity		No more than 90% RH		
Power Requirment		AC24V / DC12V Compatible		AC220V~240V
Power Consumption		4.5W		5.0W
Weight		450g		550g
Dimensions		68(W) x 55(H) x 128.5(D)mm		

Dimensions (unit:mm)

SCC-B2305 SCC-B2005P



1/3" Ex-view High Resolution, Day & Night Camera

SCC-B2307P/B2007P

Features

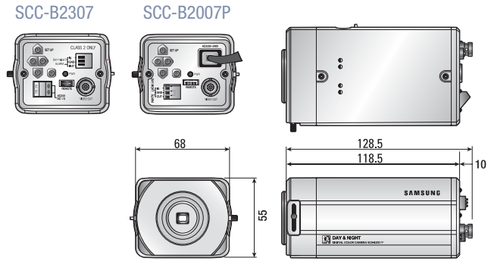
- Day & Night
- Improved image quality through DSP (Digital Signal Processor)
- 1/3" Ex-View Super HAD CCD 470K
- Horizontal resolution : 500(color)/530(B/W) TV lines
- Back light compensation for the variouslight conditions
- External synchronization with line lock
- Motion detection
- On-screen menus (multi-language)
- Picture in picture on digital zoom
- Accepts 2 types of auto - Iris lenses(DC/Video)
- Accepts CS/C-mount lens (with C-mount adaptor)
- Power input
  (SCC-B2307P : AC24V/DC12V, SCC-B2007P : AC220V~240V)

Specifications

Model		SCC-B2307P	SCC-B2007P
Imaging Device		1/3" Ex-View CCD, 470K pixels	
Effective Pixels		752(H)x582(V)	
Scanning Method		2:1 Interlace	
Scanning	Horizontal	15.625Hz	
Line Frequency	Vertical	50Hz	
Synchronization Method		Internal/Line lock	
Horizontal	Color	500 TV Lines	
Resolution	B/W	530 TV Lines	
Signal Output		VBS 1.0Vp-p(75 ohm, composite)	
S/N Ratio		52dB	
Minimum Scene	Color	0.0008(Sens up 128x,15IRE)Lux	
Illumination	B/W	0.0001(Sens up 128x,15IRE)Lux	
Functions	Camera ID	Off/On(20Characters, Position Setting)	
	Electronic Shutter	Off, 1/100 ~ 10,000 sec	
	BLC	Off/Bottom/Left/Right/Top/Center/User(Area Setting)	
	AGC	Off/Low/High	
	White Balance	ATW/AWC/Manual	
	PIP	Off/On	
	Motion Detection	Off/On(Level Control, Area Setting)	
	Sens Up	Off/Auto(2x~128x) / Fix(2x~128x)	
	Day & Night	Color/BW/Auto/EXT	
	ALC / ELC	DC Iris Control / Level Control(~ 1/100,000sec)	
Input/Output	Image Output	BNC	
	Power	Terminal Block (3-pin)	
Operating Temperature		-10°C ~ +50°C	
Operating Humidity		No more than 90% RH	
Power Requirment		AC24V / DC12V Compatible	AC220V~240V
Power Consumption		4.5W	5W
Weight		450g	550g
Dimensions		68(W) x 55(H) x 128.5(D)mm	

Dimensions (unit:mm)

SCC-B2307 SCC-B2007P



1/2" High Resolution Day & Night Camera

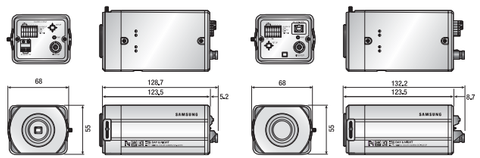
SCC-A2313/A2013P

Features

- 1/2" Ex-View IT CCD
- Day & Night (moving filter)
- Horizontal resolution : 540(color)/570(B/W) TV lines
- DNR (Digital Noise Reduction)
- Minimum scene illumination : 0.0001(color)/0.00001(B/W) Lux
- 24ea privacy zones
- Motion detection
- 16X D-zoom
- OSD (On Screen Display)
- RS485 remote control
- AC24V / DC12V (SCC-A2013P : AC220V only)

Dimensions (unit:mm)

SCC-A2313 SCC-A2013P



Specifications

Model		SCC-A2313	SCC-A2013P
Imaging Device		1/2" Ex-View IT CCD, 410K(PAL : 470K) pixles	
Effective Pixels		NTSC : 768(H)x494(V) / PAL : 752(H)x582(V)	
Scanning Method		2:1 Interlace	
Scanning	Horizontal	NTSC : 15.750Hz / PAL : 15.625Hz	
Line Frequency	Vertical	NTSC : 60Hz / PAL : 50Hz	
Synchronization Method		Internal / Line lock (V PHASE control)	
Horizontal	Color	540 TV Lines	
Resolution	B/W	570 TV Lines	
Signal Output		VBS 1.0Vp-p(75 ohm, composite)	
S/N Ratio	S/N Ratio	50dB	
	Mount Type	C/CS Mount Compatible	
Minimum Scene	Color	0.0001(Sens up 256x, 15IRE)Lux	
Illumination	B/W	0.00001(Sens up 256x, 15IRE)Lux	
Functions	Privacy Zone	Off/On(24EA)	
	Day & Night	DAY/NIGHT/AUTO/EXT	
	Motion Detection	Off/On(4EA)	
	D-Zoom	Off ~ 16x	
	High Speed Shutter	Off ~ 1/10K sec	
	Sens Up	Off ~ 256x	
	BLC	Off/On(Area setting)	
	AGC	Off/Low/High	
	ELC	Off/On(Max.1/100K sec)	
	Line lock	INT/Line Lock	
	Camera ID	Off/On(Max 20 Characters)	
	White Balance	ATW1/ATW2/AWC/MANUAL	
	OSD	Yes	
Alarm Output		Yes(1EA)	
Operating Temperature		-10°C ~ 50°C	
Operating Humidity		Within 90% RH	
Power Requirment		AC24V / DC12V Compatible	AC 220V~240V
Power Consumption		4W	4.5W
Weight		410g	500g
Dimensions		68(W) x 55(H) x 128.7(D)mm	

1/3" High Resolution Day & Night Camera

SCC-B2311/B2011P

Features

- 1/3" Super HAD CCD 410K(PAL:470K) pixels
- Realizing sharp image quality, Horizontal resolution : 540 TV lines
- Minimum scene illumination : 0.0009 Lux
- Day & Night (electric)
- DNR (Digital Noise Reduction)
- DSP chip developed exclusively for CCTV by Samsung Electronics
- Use of CS, C-mount lens possible
- Digital power synchronization method

Day & Night, Min. Scene Illumination of 0.0009Lux

This function delivers optimal video images around the clock by switching between color and black-and-white mode depending on the ambient light level, and provides noiseless sharp image quality when the AGC (auto gain control) and the ES Mode (low-speed shutter) are used together.

Day

Night

DNR (Digital Noise Reduction) technology - exclusive to Samsung Electronics

Since most DNR operates on a reduced scale between fields by using system memory, when object movement is detected the image appears to “drag”. However, the Samsung Electronics DNR has been upgraded to reduce the impact of image noise, color noise and image “dragging” regardless of object movement.

Typical DNR (Screen View)

Exclusive Samsung Electronics DNR

Independent Dynamic Defect Correction Technology

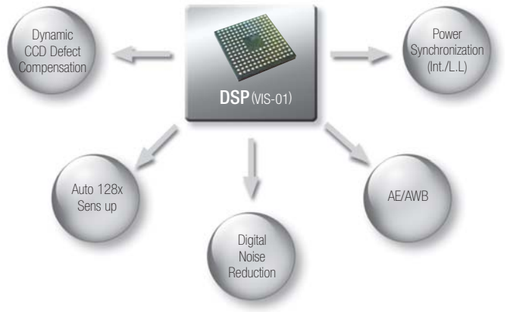
Samsung Electronics DNR algorithm delivers clean images even in low-illumination environments. It automatically, in real-time, runs the dynamic CCD correction to compensate for defects that can occur when using the low-speed shutter function (LSS) or using this device for extended periods of time.

Typical DNR (Screen View)

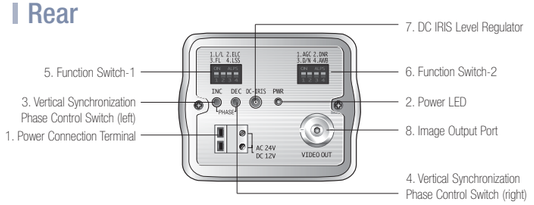
Dynamic CCD Defect Correction (Samsung Electronics)

Integrated DSP for a High-Performance CCD Camera

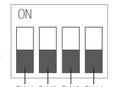
The SCC-B2311 has a new built-in high-performance integrated DSP chip developed by Samsung Electronics. The DSP chip integrates digital noise reduction, CCD dynamic defect correction and high-resolution signal processing technology and uses 16-bit CPU technology to deliver excellent resolution and sensitivity, providing superior surveillance performance.



Rear



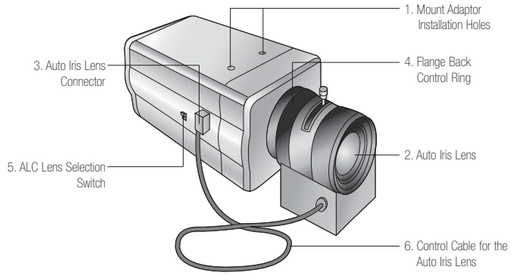
1. Power Connection Terminal : This is the terminal where a power (adaptor) cable is connected.
   Connect either AC24V or DC12V for power Requirment.
2. Power LED : The LED light is turned on if power is being supplied normally to the camera.
3. Vertical Synchronization Phase Control Switch (left)
   : Used when adjusting the vertical synchronization phase.
4. Vertical Synchronization Phase Control Switch (right)
   : Used when adjusting the vertical synchronization phase.
5. Function Switch-1



   - SW1(L/L) : If set to ‘OFF,’ the camera operates in internal synchronization mode and if set to ‘ON,’ it operates in power synchronization mode.
   - SW2(ELC) : If this switch, selected when using a manual iris lens, is switched on, the electronic shutter speed is automatically controlled according to screen brightness, in a range of 1/60~1/120,000 exposures per second.
   - SW3(FL) : This switch triggers the screen–flicker-prevention function in the 50Hz power range, preventing the screen flicker that can result from the dissonance of vertical synchronization frequency and blink frequency.
   - SW4(LSS): This switch triggers the enhanced sensitivity mode, which eliminates image noise by consistently accumulating image fields in the memory when images are captured in a dark place, and by increasing the brightness and contrast ratio.
6. Function switch-2

   - SW1(AGC) : This switch is used to turn the camera AGC (Auto Gain Control) ON/OFF.
   - SW2(DNR) : This switch triggers the random noise reduction function.
   - SW3(D&N) : This refers to the Day & Night.
   - SW4(AWB) : If this switch is set to ON, the screen color is automatically adjusted according to the temperature change of the lighting color due to changes in the external environment.
7. DC IRIS Level Regulator : When the ALC lens selection switch is set to DC, it regulates the iris level by using a control lever.
8. Video Output Terminal : The video signal of the camera can be outputted through this terminal to the video input terminal of a monitor.

Exterior


1. Mount Adaptor Installation Holes
3. Auto Iris Lens Connector
4. Flange Back Control Ring
5. ALC Lens Selection Switch
2. Auto Iris Lens
6. Control Cable for the Auto Iris Lens

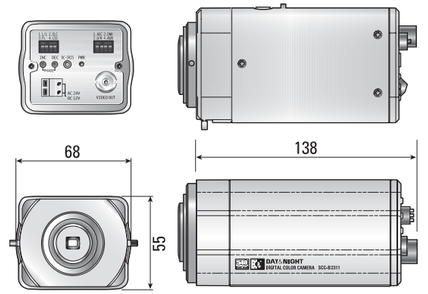
1. Mount Adaptor Installation Holes : When installing a camera to a bracket, these are used when fastening the mount adaptor to the bracket with screws.
2. Auto Iris Lens (optional) : This is the lens that can be installed onto a camera.
3. Auto Iris Lens Connector : The power, control signal, video signal and DC signal needed to control the lens iris are provided to the auto iris lens.
4. Flange Back Control Ring : This is used for controlling the back focus of camera.
5. ALC Lens Selection Switch : This is the switch for selecting the type of lens installed onto the camera.
6. Control Cable for the Auto Iris Lens : This transmits the control signal sent by the camera to control the lens iris.

Specifications

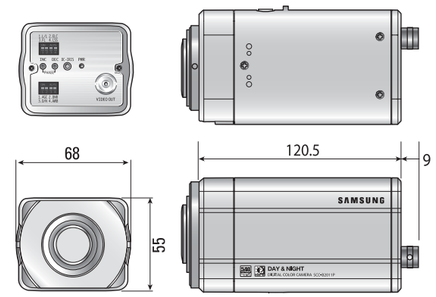
Model		SCC-B2311	SCC-B2011P
Imaging Device		1/3" Super HAD CCD, 410K(PAL:470K) pixels	
Effective Pixels		NTSC : 768(H)x494(V) / PAL : 752(H)x582(V)	
Scanning Method		2:1 Interlace	
Scanning Line Frequency	Horizontal	NTSC : 15.750Hz / PAL : 15.625Hz	
	Vertical	NTSC : 60Hz / PAL : 50Hz	
Synchronization Method		Internal / Line lock	
Horizontal Resolution		540 TV Lines	
Signal Output		VBS 1.0Vp-p(75 ohm, Composite)	
S/N Ratio		50dB	
Minimum Scene Illumination		0.0009(Sens up 128x, 15IRE)Lux	
Control Switch	Day & Night	Off/On	
	White Balance	ATW/AWC	
	ALC / ELC	ALC(Video/DC) / ELC(~1/120Ksec)	
	Flickerless	Off/On	
	Line lock	Off/On (V-Phase Regulation)	
Input/Output	Image Output	BNC	
	AI Lens	4-pin DIN	
	Power	Terminal Block (2-pin)	
Operating Temperature		-10°C ~ +50°C	
Operating Humidity		Maximum 90% RH	
Power Requirment		AC24V / DC12V Compatible	AC 220V~240V
Power Consumption		3W	3.5W
Weight		440g	550g
Dimensions		68(W) x 55(H) x 138(D)mm	

Dimensions (unit:mm)

SCC-B2311



SCC-B2011P



1/3" High Resolution WDR Color Camera

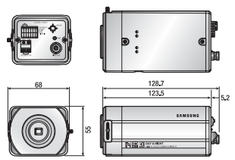
SCC-B2313/B2315
SCC-B2013P/B2015P

Features

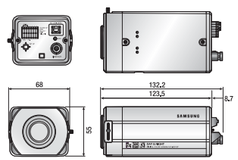
- 1/3" Super HAD Progressive CCD (SCC-B2313 : Super HAD IT CCD)
- Day & Night (moving filter)
- Horizontal resolution : 540(color)/570(B/W) TV lines
- DNR (Digital Noise Reduction)
- Minimum scene illumination : 0.0005(color)/0.00005(B/W) Lux
- WDR (Wide Dynamic Range) - (SCC-B2313/B2013P is not available)
- 24ea privacy zones
- Motion detection
- 16x D-zoom
- OSD (On Screen Display)
- RS485 remote control
- AC24V / DC12V (SCC-B2013/B2015P : AC220V only)

Dimensions (unit:mm)

SCC-B2313/B2315



SCC-B2013P/B2015P



Specifications

Model		SCC-B2313	SCC-B2315
Imaging Device		1/3" Super-HAD IT CCD	1/3" Super-HAD PS CCD
Effective Pixels		NTSC : 768(H)x494(V) / PAL : 752(H)x582(V)	
Scanning Method		2:1 Interlace	
Scanning Frequency	Horizontal	NTSC : 15.750Hz / PAL : 15.625Hz	
	Vertical	NTSC : 60Hz / PAL : 50Hz	
Synchronization Method		Internal / Line lock (V PHASE control)	
Horizontal Resolution	Color	540 TV Lines	
	B/W	570 TV Lines	
Signal Output		VBS 1.0Vp-p(75 ohm, composite)	
S/N Ratio	S/N Ratio	50dB	
	Mount Type	C/CS Mount Compatible	
Minimum Scene Illumination	Color	0.0005(Sens up 256x, 15IRE)Lux	
	B/W	0.00005(Sens up 256x, 15IRE)Lux	
Functions	Privacy Zone	Off/On(24EA)	
	Day & Night	DAY/NIGHT/AUTO/EXT	
	Motion Detection	Off/On(4EA)	
	Wide Dynamic Range	No	Yes
	D-Zoom	Off ~ 16x	
	High Speed Shutter	Off ~ 1/10K sec	
	Sens Up	Off ~ 256x	
	BLC	Off/On(Area setting)	
	AGC	Off/Low/High	
	ELC	Off/On(Max.1/100K sec)	
	Line Lock	INT/Line Lock	
	Camera ID	Off/On (Max 20 Characters)	
	White Balance	ATW1/ATW2/AWC/MANUAL	
	OSD	Yes	
Alarm Output		Yes(1EA)	
Remote Control		RS485(Half)	
Operating Temperature		-10°C ~ 50°C	
Operating Humidity		Within 90% RH	
Power Requirment		AC24V / DC12V Compatible	
Power Consumption		4W (SCC-B2015 : 4.5W)	
Weight		410g (SCC-B2015 :600g)	
Dimensions		68(W) x 55(H) x 128.7(D)mm	

* SCC-B2013P is same as SCC-B2313 except for Power Requirment (AC 220V~240V)
SCC-B2015P is same as SCC-B2315 except for Power Requirment (AC 220V~240V)

1/4" Zoom Lens Camera

SCC-C4201/C4301

Features

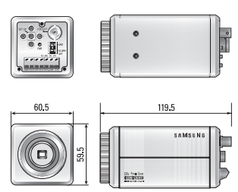
- Superior images through DSP (Digital Signal Processor)
- 1/4" Super HAD CCD 410/470K
- Horizontal resolution : 480 TV Lines
- 10-bit A/D converter
- Motion detection
- Optical 22x zoom (f=3.6~79.2mm),
  10x digital zoom lens (maximum 220x zoom)
- Outstanding signal-to-noise (S/N) ratio (52dB)
- Both RS-485 communication interface & wired remote control
- Minimum scene illumination : 0.005(color)/0.0005(B/W) Lux

Featuring 22x Optical Zoom

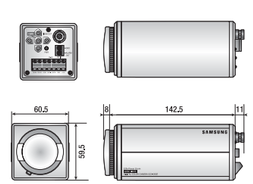
It allows up to 220x magnification, displaying distant objects with greater accuracy.

Dimensions (unit:mm)

SCC-C4201



SCC-C4301



Specifications

Model			SCC-C4201	SCC-C4301
Imaging Device			1/4" Super HAD CCD NTSC : 410K/470K pixels / PAL : 470K pixels	
Effective Pixels			768(H)x494(V) (SCC-C4201P : 752(H)x582(V))	
Scanning Method			2:1 Interlace	
Scanning Line Frequency	Horizontal		15.750KHz (SCC-C4201P : 15.625Hz)	
	Vertical		60Hz (SCC-C4201P : 50Hz)	
Synchronization Method			Internal	Internal/Line lock
Horizontal Resolution			480 TV Lines	
Signal Output			VBS 1.0Vp-p(75 ohm, composite)	
S/N Ratio			52dB	
Minimum Scene Illumination	Color		0.005(Sens up 128x,15IRE)Lux	
	B/W		0.0005(Sens up 128x,15IRE)Lux	
Lens	Zoom Ratio		220x Zoom(22x optical, 10x digital)	
	Focal Length		3.6~79.2mm	
	Aperture Ratio	Tele	F3.8	
		Wide	F1.6	
	Viewing Angle	Tele	2°3'(H)x1°7'(V) 9'(V)	2°3'(H) x 1°7'(V)
		Wide	47°9'(H)x36°	47°9'(H) x 36°9'(V)
Functions	Camera ID		Off/On(20Characters, Position Setting)	
	Electronic Shutter		Off, 1/100 ~ 10,000 sec	
	BLC		Off/On(Area setting)	
	AGC		Off/On	
	PIP		Off/On	
	White Balance		ATW/AWC/Manual	
	Motion Detection		Off/On(Area/Sensitivity setting)	
	Sens Up		Off/Auto(2x ~ 128x)/Fix(2x ~ 128x)	
Input/Output	Image Output		BNC	
	Power		Terminal Block(2-pin)	
Remote Control			RS-485(Half Duplex)	
Operating Temperature			-10°C ~ +50°C	
Operating Humidity			Maximum 90% RH	Less than 90% RH
Power Requirment			DC12V	AC24V/DC12V Compatible
Power Consumption			5.0W	5.5W
Weight			375g	500g
Dimensions			60.5(W)x59.5(H)x119.5(D)mm	60.5(W) x 59.5(H) x 161.5(D)mm

1/4" 22x Zoom, Day & Night Camera
SCC-C4203A/C4303A

Features

- 1/4" Super HAD CCD (SCC-C4203A : 410K/470K, SCC-C4203A : 470K)
- Day & Night
- DSP (Digital Signal Processor)
- 10-bit A/D converter
- 220x Zoom ratio (22x optical zoom (f=3.6-79.2mm) and 10x digital)
- Excellent signal-to-noise ratio (50dB)
- Motion detection
- Both RS-485 communication interface & wired remote control

Day & Night

The camera shows optimal images around the clock, by switching between color and black&white mode according to the level of ambient light.

Day

Night

Featuring 22x Optical Zoom

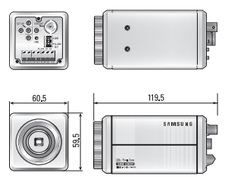
Magnification up to a maximum of 220x allows more accurate identification of distant objects.

Specifications

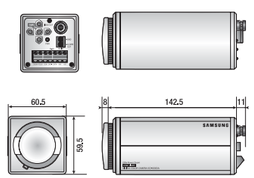
Model			SCC-C4203A	SCC-C4303A
Imaging Device			1/4" Super HAD CCD, 410K/470K pixels	
Effective Pixels			NTSC : 768(H)x494(V) /PAL : 752(H)x582(V)	
Scanning Method			2:1 Interlace	
Scanning Line Frequency	Horizontal		NTSC :15.750KHz /PAL : 15.625Hz	
	Vertical		NTSC :60Hz /PAL : 50Hz	
Synchronization Method			Internal	Internal/Line lock
Horizontal Resolution			Color : 480 TV Lines / B/W : 350 TV Lines	
Signal Output			VBS 1.0Vp-p(75 ohm, Composite)	
S/N Ratio			50dB	
Minimum Scene Illumination	Color		0.005(Sens up 128x,15IRE)Lux	
	B/W		0.0005(Sens up 128x,15IRE)Lux	
Lens	Zoom Ratio		220x Zoom(22x optical, 10x digital)	
	Focal Length		3.6~79.2mm	
	Aperture	Tele	F3.8	
	Ratio	Wide	F1.6	
	Viewing Angle	Tele	2°3'(H) x 1°7'(V)	
		Wide	47°9'(H) x 36°9'(V)	
Functions	Camera ID		Off/On (20Characters, Position Setting)	
	Electronic Shutter		Off, 1/100 ~ 10,000 sec	
	BLC / AGC / PIP		Off/On	
	White Balance		ATW/AWC/Manual	
	Motion Detection		Off/On (Area/Sensitivity Setting)	
	Sens Up		OFF/Auto(2x~128x)/Fix(2x~128x)	
Input/Output	Image Output		BNC	
	Power		Terminal Block(2-pin)	
Remote Control			RS-485 (Half Duplex)	
Operating Temperature			-10ºC ~ +50ºC	
Operating Humidity			Maximum of 90% RH	No more than 90% RH
Power Requirment			DC12V	AC24V / DC12V Compatible
Power Consumption			5.0W	5.5W
Weight			375g	550g
Dimensions			60.5(W) x 59.5(H) x 119.5(D)mm	60.5(W) x 59.5(H) x 161.5(D)mm

Dimensions (unit:mm)

SCC-C4203A



SCC-C4303A



22x Power Zoom, Day & Night, WDR Camera
SCC-C4205/C4305

Features

- 22x motorized optical zoom with 10x digital zoom
- 1/4" Ex-View PS CCD 410K/470K
- Horizontal resolution : 480 TV lines
- DSP (Digital Signal Processor)
- WDR (Wide Dynamic Range), Day & Night
- External synchronization with line lock (SCC-C4305)
- Motion detection with alarming output
- On-screen menus (multi-language)
- Remote-control (zoom, focus, Iris open-close)
- Minimum scene illumination : 0.002(color)/0.0002(B/W) Lux
- 1 Alarm output (motion detection)

Day & Night

Optimal images are displayed anytime of a day by switching between color mode and black & white mode according to the level of brightness.

Day

Night

WDR (Wide Dynamic Range)

WDR allows dark subjects to be viewed vividly under bright lighting or sunlight.

Normal

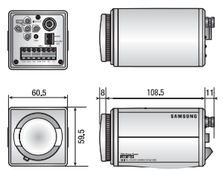
WDR

Specifications

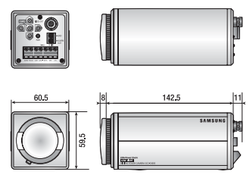
Model			SCC-C4205	SCC-C4305
Imaging Device			1/4" Ex-View PS CCD	
Effective Pixels			NTSC : 768(H)x494(V) / PAL : 752(H)x582(V)	
Scanning Method			2:1 Interlace	
Synchronization Method			Internal	Internal/Line lock
Horizontal Resolution			480 TV Lines	
Signal Output			VBS 1.0Vp-p	
S/N Ratio			50dB	
Minimum Scene Illumination	Color		0.002(Sens up 160x,15IRE)Lux	
	B/W		0.0002(Sens up 160x,15IRE)Lux	
Lens	Zoom Ratio		22x	
	Focal Length		3.6~79.2mm	
	Aperture Ratio	Tele	F3.8	
		Wide	F1.6	
	Viewing Angle	Tele	2°3'(H) x 1°7'(V)	
		Wide	47°9'(H) x 36°9'(V)	
Functions	Camera ID		Max 20 Character	
	High Speed Shutter		Off ~ 1/10Ksec	
	BLC		Off/On	
	AGC		Off/Low/High	
	White Balance		ATW/AWC/Manual	
	Motion Detection		Off/On	
	Sens Up		Off ~ 160x	
Operating Temperature			-10°C ~ +50°C	
Operating Humidity			Less than 90%	
Power Requirment			DC12V	AC24V/DC12V Compatible
Power Consumption			5.7W	6W
Weight			375g	500g
Dimensions			60.5(W) x 59.5(H) x 127.5(D)mm	60.5(W) x 59.5(H) x 161.5(D)mm

Dimensions (unit:mm)

SCC-C4205



SCC-C4305



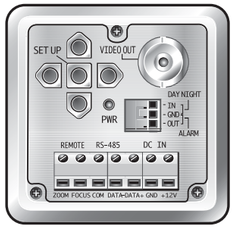
1/4" 32x Zoom, Day & Night, WDR Camera

SCC-C4207/C4307

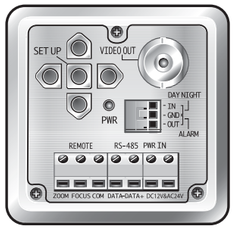
Features

- 1/4" Ex-View CCD 410K/470K
- DIS (Digital Image Stabilizer)
- 32x zoom Lens (digital zoom: 10x)
- Minimum scene illumination : 0.002(color)/0.0002(B/W) Lux
- Day & Night
- 128x WDR (Wide Dynamic Range)
- Motion detection (with adjustable zones and sensitivity levels)
- Privacy protection that allows up to 8 privacy zones
- Remote control through RS485 (using SSC-1000 and SSC-2000)
- Sharp image quality, thanks to an excellent signal-to-noise ratio (50dB)

Rear Parts



SCC-C4207



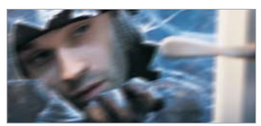
SCC-C4307

The first camera of its kind to adopt the 32x optical zoom lens

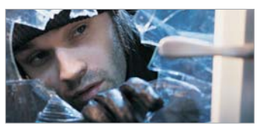
Object identificaiton has become easier, thanks to 320x zoom (32x optical & 10x digital) auto focus zoom lens.

DIS (Digital Image Stabilizer)

This feature provides sharp images by correcting image-shake due to some form of shaking on the camera.



DIS OFF



DIS ON

Camera Manipulation Switch (setup switch)

The functions of these parts will differ, depending on the operation mode of the camera.

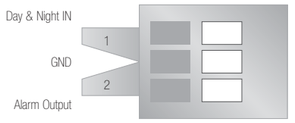
- When the camera is in general operation mode :
  - Up/Down Direction Switch : Zoom Tele or Zoom Wide switch, respectively.
  - Left/Right Direction Switch : Near Focus or Far Focus switch, respectively.
  - [SET UP] Switch: This is used to enter the setup menu :
    The user can enter the setup menu by pushing the [SET UP] switch, and holding it for 3 seconds.
- From the setup menu :
  - Up/Down Direction Switch : Used to move the cursor up or down.
  - Left/Right Direction Switch : Used to move the cursor to the left or right.
    Other functions may be designated by the setup menu.
  - [ENTER] Switch : Used to select the highlighted option.

ZOOM/FOCUS REMOTE Terminal

This is the terminal used to connect an external controller for ZOOM/FOCUS and menu control and for executing the HOME RETURN and AF functions. It can be set to one of four modes (A, B, C or D) according to the input condition.

Day & Night External Signal Input and Alarm Signal Output Terminal

This is the terminal that allows connection to an external brightness sensor (optional) to trigger switching between black & white or color mode. It also sends out an alarm signal when linked to the MOTION DET function or black & white.



Video Output Terminal

This is the terminal that is connected to the video input terminal of a monitor. The video images from the camera are sent to the monitor through this terminal.

RS485 Port

This is the RS485 remote control port.

Power LED

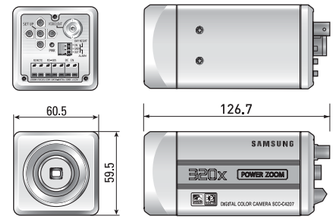
The LED will be on if power is being supplied to the camera.

Power Input Terminal

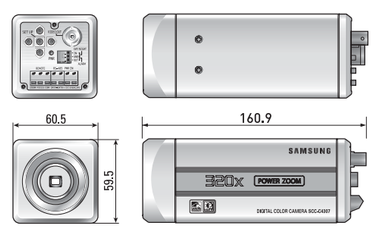
This is the terminal that is connected to the power adaptor cable.

Dimensions (unit:mm)

SCC-C4207



SCC-C4307



Specifications

Model			SCC-C4207(P)	SCC-C4307(P)
Imaging Device			1/4" Ex-View CCD, 410K/470K pixels	
Effective Pixels			NTSC : 768(H)x494(V) / PAL : 752(H)x582(V)	
Scanning Method			2 : 1 Interlace	
Scanning Line Frequency	Horizontal		NTSC : 15.750Hz / PAL : 15.625Hz	
	Vertical		NTSC : 60Hz / PAL : 50Hz	
Synchronization Method			Internal	Internal/Line lock
Horizontal Resolution			480 TV Lines	
Signal Output			VBS 1.0Vp-p(75 Ohm, Composite)	
S/N Ratio			50dB(AGC Off)	
Minimum Scene Illumination	Color		0.002(Sens up 160x,15IRE)Lux	
	B/W		0.0002(Sens up 160x,15IRE)Lux	
Lens	Zoom Ratio		320x (32x Optical, 10x Digital)	
	Focal Length		3.55 ~ 113mm	
	Aperture Ratio	Tele	F4.17	
		Wide	F1.69	
	Viewing Angle	Tele	1°78'(H)x1°34'(V)	
		Wide	56°41'(H)x43°01'(V)	
Functions	Wide Dynamic Range		Off/On (128x)	
	Day & Night		Color/BW/Auto/EXT	
	Motion Detection		Off/On (Area/Sensitivity Setting)	
	Electronic Shutter		Off, 1/100~10,000 sec	
	Sens Up		Off/Auto (2x ~ 160x)	
	BLC		Off/On (Area Setting)	
	AGC		Off/Low/High	
	Camera ID		Max. 20 Characters	
	White Balance		ATW/ATW2/AWC/Manual	
	IR Filter		Off/On	
Privacy Zones			Up to 8 zones can be set (Mosaic)	
Input/Output	Image Output		BNC	
	Remote Control		RS485	
	Alarm Output		1	
	Power		Terminal Block(2-pin)	
Operating Temperature			-10ºC~ +50ºC	
Operating Humidity			Maximum 90% RH	
Power Requirment			DC12V	AC24V/DC12V compatible
Power Consumption			5.5W	6W
Weight			390g	515g
Dimensions			60.5(W) x 59.5(H) x 126.7(D)mm	60.5(W) x 59.5(H) x 160.9(D)mm

High Resolution Day & Night, WDR Zoom Camera

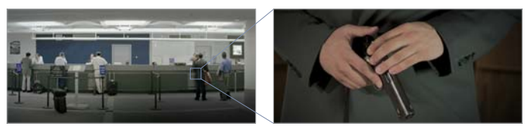
SCC-C4233/C4235 NEW
SCC-C4333/C4335

Features

- 1/4" 410K/470K pixels CCD
- 32x Optical zoom lens (16x D-zoom)
- High resolution Day & Night : 540(Color)/570(BW) TV Lines
- Minimum scene illumination :
  (SCC-C4233(P)/C4333(P) : 0.002 Lux (15 IRE, Sens-up 256x, Color)
  : 0.0002 Lux (15 IRE, Sens-up 256x, B/W)
  SCC-C4235(P)/C4335(P) : 0.001 Lux (15 IRE, Sens-up 256x, Color)
  : 0.0001 Lux (15 IRE, Sens-up 256x, B/W))
- Full auto focus function
- Privacy mask zone (16 area)
- Multi-protocol (more than 8 companies), multi-OSD
- Remote control(RS485), power zoom/focus control

512x Zoom (32x Optical, 16x Digital)

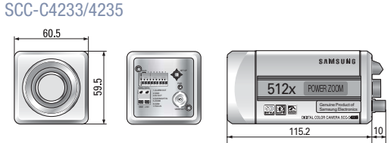
32x Optical Zoom Lens(f=3.55 ~ 113mm) / 16x Digital Zoom with DSP IC
Maximum 512x Zoom Function allows for easy identification of distant object.



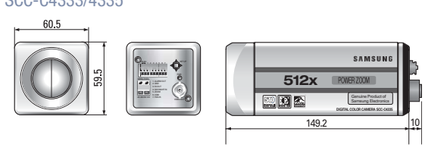
512x Zoom

Dimensions (unit:mm)

SCC-C4233/4235



SCC-C4333/4335



Specifications

Model			SCC-C4233(P)	SCC-C4333(P)	SCC-C4235(P)	SCC-C4335(P)
Camera Type			Color			
Image	Device		1/4" Super-HAD IT CCD		1/4" Ex-View-HAD PS CCD	
	Effective Pixels	NTSC	768(H) x 494(V)			
		PAL	752(H) x 582(V)			
Minimum Scene Illumination		Color	0.6 Lux(15IRE,Sens-up Off)		0.3 Lux(15IRE,Sens-up Off)	
			0.002 Lux(15IRE, Sens-up x256)		0.001 Lux(15IRE, Sens-up x256)	
		B/W	0.06 Lux(15IRE,Sens-up Off)		0.03 Lux(15IRE,Sens-up Off)	
			0.0002 Lux(15IRE, Sens-up x256)		0.0001 Lux(15IRE, Sens-up x256)	
Functions	Number of Privacy Zone		16			
	Day & Night		Color/BW/Auto (Moving Filter)			
	Line Lock		N/A	INT/Line Lock	N/A	INT/Line Lock
	White Balance		ATW1/ATW2/AWC/MANUAL			
	D-Zoom		Yes (~16x)			
	High Speed Shutter		Yes (OFF ~ 1/10K)			
	Motion Detection		Yes			
	Sens Up		Yes (2x ~ 256x)			
	Camera ID		Max 20 Character			
	Remote Control		RS485, Power Zoom/Focus			
	Alarm	Input	N/A			
		Output	1			
	Wide Dynamic Range		N/A		Yes	
Horizontal Resolution			540(Color)/570(BW) TV Lines			
Video Output			VBS 1.0Vp-p			
S/N Ratio			About 50 dB			
Lens	Focal Length		3.55 ~ 113mm			
	Zoom Ratio		32x Optical			
	Aperture Ratio		F1.69(W)/F4.17(T)			
	Viewing Angle	Tele	1.78˚(H) x 1.34˚(V)			
		Wide	56.41˚(H) x 43.01˚(V)			
Operating Temperature			-10˚C ~ + 50˚C			
Operating Humidity			Less than 90%			
Power	Power Requirement	NTSC	DC 12V	AC24V/DC12V,60Hz	DC12 V	AC24V/DC12V,60Hz
		PAL		AC24V/DC12V,50Hz		AC24V/DC12V,50Hz
	Power Consumption		4W	5W		5.5W
	LED Indicator		Yes			
Dimensions	Net(mm)		60.5 X 59.5 X 125.2	60.5 X 59.5 X 159.2	60.5 X 59.5 X 125.2	60.5 X 59.5 X 159.2
Weight	Net		444g	595g	444g	595g
Color	Body		Silver			

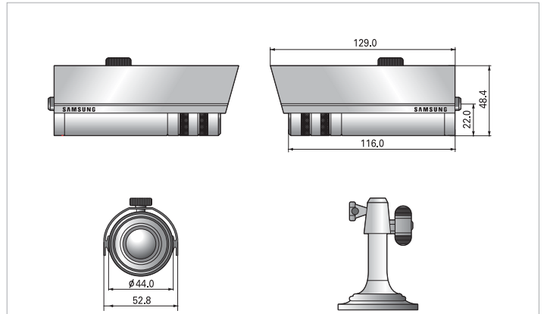
Bullet Type Camera

SCC-B9221 NEW

Features

- 1/3" 410K/470K pixels Super HAD CCD
- 480 TV lines resolution
- Minimum scene illumination : 0.3 Lux at F1.2
- 4~9mm vari-focal fixed iris lens built-in F1.5
- Externally adjustable focal length & focus by ring
- Back light compensation
- Back, top and bottom side bracket mounting available
- Water resistant (IP66)
- Size: 44(ø) x 116(L)mm

Dimensions (unit:mm)



Specifications

Model			SCC-B9221
Imaging Device			1/3" Super-HAD IT CCD
Effective Pixels			768(H)x494(V)
Scanning Method			Interlace
Scanning Line Frequency	Horizontal		15.734Hz
	Vertical		60Hz
Synchronization Method			Internal
Horizontal Resolution			480 TV Lines
Signal Output			VBS 1.0Vp-p
S/N Ratio			48dB
Minimum Scene Illumination	Color		0.3Lux
	B/W		-
Lens	Focal Length		4 ~ 9 mm
	Aperture Ratio		F1.5
	Viewing Angle	Tele	31.5°(H)x23.6°(V)
		Wide	68.1°(H)x50.5°(V)
Functions	Wide Dynamic Range		N/A
	Day & Night		N/A
	Motion Detection		N/A
	High Speed Shutter		N/A
	Sens Up		N/A
	BLC		On
	AGC		Auto
	ELC		On
	Camera ID		N/A
	Line Lock		N/A
	White Balance		ATW
Alarm Input/Output			N/A
Remote Control	RS485		N/A
Operating Temperature			-10ºC~ +50ºC
Operating Humidity			Less than 90%
Power Requirment			DC 12V ±10%
Power Consumption			1.7W
Weight			705g
Dimensions			44(ø) x 116(L)mm
Color			Gray

Bullet type IR LED Day & Night Camera

SCC-B9270P NEW

Features

- 1/3" 320K pixels CCD
- 350 TV lines resolution
- Minimum scene illumination : 0 Lux with IR-LED(48pcs)
- 4.3mm fixed iris lens built-in F2.0
- No focus shift in night time (at LED turn on)
- Back light compensation
- Water resistant (IP66)
- Size: 70(ø) x 104(L)mm
- DC12V, 110mA/450mA (IR LED On)

Min. Illumination 0Lux with IR-LED

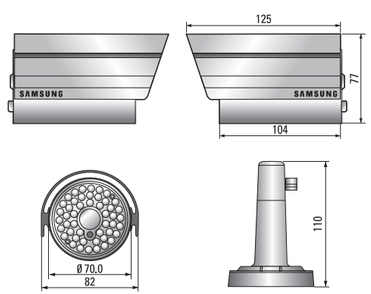
Provides sharp images of high resolution through IR LEDs installed by default under zero Lux when there is no light.

0Lux

Specifications

Model			SCC-B9270P
Camera Type			Color
Image	Device		1/3" Super-HAD IT CCD
	Pixels	Total	537 x 597
		Effective	500 x 582
Minimum Scene Illumination		Color	0 Lux with IR-LED(48pcs)
		B/W	Viewable length at night : 40m
Resolution	Horizontal		350 TV Lines
	Vertical		350 TV Lines
Video Output			VBS 1.0Vp-p
S/N Ratio			48 dB
Function			AGC, BLC, ATW
Lens	Focal Length		4.3mm
	Aperture Ratio		F2.0
	Viewing Angle	Tele	73.7°(H) x 47.3°(V)
		Wide	
	Lens Drive Type		Fixed Iris (ELC Function)
Operating Temperature			-10°C ~ + 50°C
Operating Humidity			Less than 90%
Water resistant			IP 66
Power Requirement			DC 12V
Power Consumption			1.3W(Led Off)/5.4W(Led On)
Dimension			70(ø) x 104(L)mm
Weight			750g

Dimensions (unit:mm)



Bullet type IR LED Day & Night Camera

SCC-B9371/B9372P/B9373 NEW

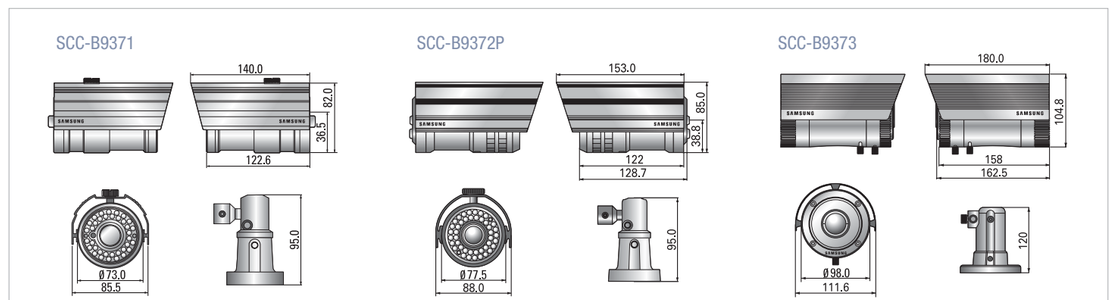
Features

- 1/3" 410K/470K pixels Super-HAD CCD
- 540(Color)/570(BW) TV lines resolution
- Minimum scene illumination : (SCC-B9371 : 0 Lux with IR-LED(36pcs)
  SCC-B9372P : 0 Lux with IR-LED(42pcs)
  SCC-B9373(P) : 0 Lux with IR-LED(42pcs))
- Focal length & focus externally adjustable
- DC iris level external adjustable
- Viewable length at night : (SCC-B9371 : 35m
  SCC-B9372P : 45m
  SCC-B9373(P) : 70m)
- Back light compensation
- Water resistant (IP66)
- Size : (SCC-B9371 : 73(ø) x 122(L)mm
  SCC-B9372P : 77.5(ø) x 129(L)mm
  SCC-B9373(P) : 98(ø) x 162.5(L))mm
- AC24V/DC12V : (SCC-B9371 : 210mA/600mA (IR LED On)
  SCC-B9372P :210mA/650mA (IR LED On)
  SCC-B9373(P) : 210mA/1.2A (IR LED On))

Specifications

Model			SCC-B9371	SCC-B9372P	SCC-B9373(P)
Camera Type			Color		
Image	Device		1/3" Super-HAD IT CCD		
	Pixels	Total	NTSC : 811 x 508 / PAL : 795 x 596		
		Effective	NTSC : 768 x 494 / PAL : 752 x 582		
Minimum Scene Illumination		Color	0 Lux with IR-LED(36pcs) Viewable length at night : 35m	0 Lux with IR-LED(42pcs) Viewable length at night : 45m	0 Lux with IR-LED(42pcs) Viewable length at night : 70m
		B/W			
Resolution	Horizontal		540(Color)/570(BW) TV Lines		
	Vertical		350 TV Lines		
Video Output			VBS 1.0Vp-p		
S/N Ratio			48 dB		
Function			AGC, BLC, ATW		
Lens	Focal Length		3.8~9.5mm		6~50mm
	Aperture Ratio		F1.2		F1.6
	Viewing Angle	Tele	30.0°(H) x 22.4°(V)	30.0°(H) x 22.4°(V)	5.7°(H) x 4.3°(V)
		Wide	74.2°(H) x 54.0°(V)	74.2°(H) x 54.0°(V)	43.9°(H) x 33.2°(V)
	Lens Drive Type		Vari-Focal Auto Iris		
Operating Temperature			-10°C ~ + 50°C		
Operating Humidity			Less than 90%		
Water Resistant			IP 66		
Power Requirement			AC 24V & DC 12V		
Power Consumption			2.5W(Led Off)/7.2W(Led On)	2.5W(Led Off)/7.8W(Led On)	2.5W(Led Off)/14.4W(Led On)
Dimension			73(ø) x 122(L)mm	77.5(ø) x 129(L)mm	98(ø) x 162.5(L)mm
Weight			910g	1010g	2335g

Dimensions (unit:mm)



Anti-Vandal Dome IR LED Day & Night Camera

SCC-B9374 NEW

Features

- 1/3" 410K/470K pixels Super-HAD CCD
- 540(Color)/570(BW) TV lines resolution
- Minimum scene illumination : 0 Lux with IR-LED(18pcs)
- Vari-focal(3.8~9.5mm) auto iris lens built-in F1.2
- Color & B/W changing time selectable
- IR LED Day & Night vision camera
- Real 3-axis gimbals bracket (2-Pan , 2-Tilt)
- Viewable length at night(20m)
- Back light compensation
- Vandal resistant, water resistant (IP66)
- Service monitor (second video) built-in
- Size : 145(ø) x 100(L)mm
- AC24V/DC12V, 210mA/420mA (IR LED On)

Water Resistant

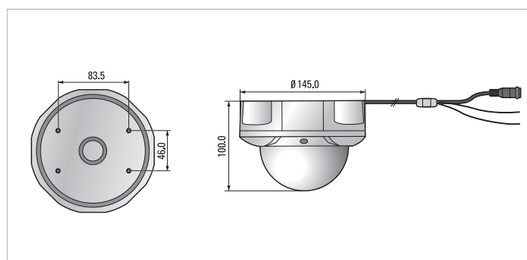
Cameras are protected from rain, moisture, snow, and dust,
all of which occur naturally outdoors as well as moisture and dust indoors.

Water Resistant

Specifications

Model			SCC-B9374
Camera Type			Color
Image	Device		1/3" Super-HAD IT CCD
	Pixels	Total	NTSC : 811 x 508 / PAL : 795 x 596
		Effective	NTSC : 768 x 494 / PAL : 752 x 582
Minimum Scene Illumination		Color	0 Lux with IR-LED(18pcs)
		B/W	Viewable Length at Night : 20m
Resolution	Horizontal		540(Color)/570(BW) TV Lines
	Vertical		350 TV Lines
Video Output			VBS 1.0Vp-p
S/N Ratio			48 dB
Function			AGC, BLC, ATW
Lens	Focal Length		3.8~9.5mm
	Aperture Ratio		F1.2
	Viewing Angle	Tele	30.0˚(H) x 22.4˚(V)
		Wide	74.2˚(H) x 54.0˚(V)
	Lens Drive Type		Vari-focal Auto Iris
Operating Temperature			-10˚C ~ + 50˚C
Operating Humidity			Less than 90%
Water resistant			IP 66
Power Requirement			AC 24V & DC 12V
Power Consumption			2.5W(Led Off)/5W(Led On)
Dimension			145(ø) x 100(L)mm
Weight			990g

Dimensions (unit:mm)



1/3" Color Fixed Dome Camera

SCC-B5203

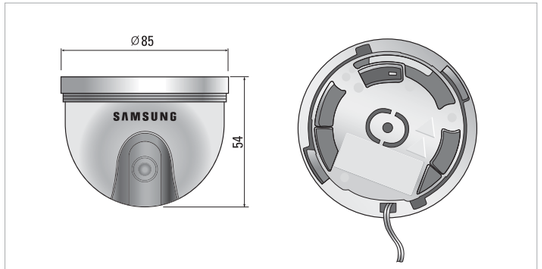
Features

- Horizontal resolution : 520 TV Lines
- Minimum scene illumination : 0.15(color)/0.015(B/W) Lux
- Compact size of 85(ø)x54(H)mm
- Pan/tilt adjustment to a wide range of angles
- Sharp image quality, with an excellent signal-to-noise ratio (50dB)
- Easy to install (ceiling-mountable)
- Exterior Color : SCC-B5203S (silver)
  SCC-B5203 (black)

Specifications

Model		SCC-B5203	SCC-B5203P
Imaging Device		1/3" Super HAD CCD	
Effective Pixels		768(H)x494(V)	752(H)x582(V)
Scanning Method		2 : 1 Interlace	
Scanning Line Frequency	Horizontal	15.750Hz	15.625Hz
	Vertical	60Hz	50Hz
Synchronization Method		Internal	
Horizontal Resolution		520 TV Lines	
Signal Output		VBS 1.0Vp-p(75 Ohm, Composite)	
S/N Ratio		50dB	
Minimum Scene Illumination	Color	0.15(Sens up Off,15IRE)Lux	
	B/W	0.015(Sens up Off,15IRE)Lux	
PAN / TILT		330°(Manual) / 10°~ 90°(Manual)	
Control Switch	BLC	On	
	AGC	On	
	ELC	On(Max. 1/120Ksec)	
	White Balance	ATW/AWC	
Lens	Focal Length	3.0mm fixed lens	
	Aperture Ratio	F2	
	Viewing Angle	94.4°(H)x69.5°(V)	
Input/Output	Image Output	BNC	
	Power	2-pin Terminal	
Operating Temperature		-10°C ~ +50°C	
Operating Humidity		Less than 90%	
Power Requirment		DC12V	
Power Consumption		2W	
Weight		125g	
Dimensions		85(ø) x 54(H)mm	

Dimensions (unit:mm)



1/3" Color Fixed Dome Camera

SCC-B5310/B5311
SCC-B5313/B5315

Features

- Horizontal resolution : 540 TV lines
- Minimum scene illumination : (SCC-B5310 : 0.001Lux
  SCC-B5311/B5313/B5315 : 0.002Lux)
- Horizontal and vertical mirroring
- 3-axis design
- DNR (Digital Noise Reduction)

The 3-axis dome design makes it installable on a wall or on an inclined surface

The SCC-B531X series camera lens rotates inside its dome and moves up to 340° horizontally and up to 90° vertically. It can be easily installed in difficult areas such as a wall or an inclined surface where it is difficult to install a surveillance camera.

Wall

Ceiling

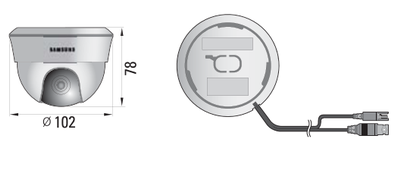
Inclined Surface

Specifications

Model			SCC-B5310	SCC-B5311	SCC-B5313	SCC-B5315
Camera Type			1/3" Day & Night Color Fixed Dome Camera			
Image	Device		Super-HAD IT CCD			
	Effective Pixels	NTSC	510(H) x 492(V)	768(H) x 494(V)		
		PAL	500(H) x 582(V)	752(H) x 582(V)		
Scanning	System		NTSC : 525 Line, 2:1 Interlace / PAL : 625 Line, 2:1 Interlace			
Minimum Scene Illumination		Color	0.001Lux	0.002(Sens up 128x, 15IRE)Lux		
		B/W	0.001Lux	0.002(Sens up 128x, 15IRE)Lux		
Functions	Day & Night		Yes(Electric)			
	Sens Up(LSS)		Off, AUTO 128x			
	H/V Reverse		Yes(On/Off)			
	DNR		Yes(On/Off)			
Horizontal Resolution			330TV Lines	540TV Lines		
Video Output			VBS 1.0Vp-p (75Ω, Composite)			
Lens	Focal Length		3.8mm	3.0mm	8.0mm	
	Viewing Angle	Horizontal	71°	92°	33.6°	
		Vertical	53°	72°	25.3°	
	PAN / TILT		0°~340° / 0°~90°			
Operating Temperature			-10°C~50°C			
Operating Humidity			Within 90% RH			
Power Requirement			AC24V / DC12V compatible			
Power Consumption			1.6W			
Weight			190g			
Dimensions			102(ø) x 78(H)mm			
Body Color	White		SCC-B5310	SCC-B5311	SCC-B5313	SCC-B5315
	Black		SCC-B5310B	SCC-B5311B	SCC-B5313B	SCC-B5315B

*SCC-B5310 is only available in NTSC.

Dimensions (unit:mm)



1/3" Color Vari-Focal Dome Camera

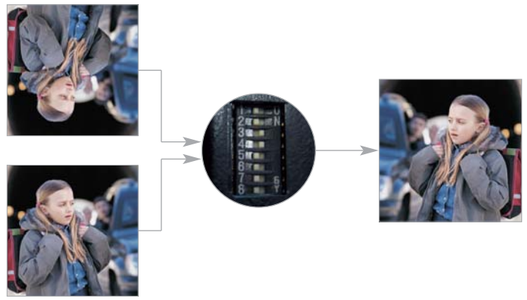
SCC-B5352/B5353
SCC-B5354/B5355

Features

- Horizontal resolution : 540 TV Lines
- Minimum scene illumination : (SCC-B5352 : 0.0009Lux
  SCC-B5353 : 0.0009(color)/0.00009(B/W)Lux)
- Horizontal and vertical mirroring
- 3-axis design
- DNR (Digital Noise Reduction)
- Variable focal length of lens (2.5-6mm / 2.9-10mm)

Convenient Installation

The SCC-B535X camera uses horizontal and vertical mirroring functions to provide correct images regardless of the cameras installation environment.

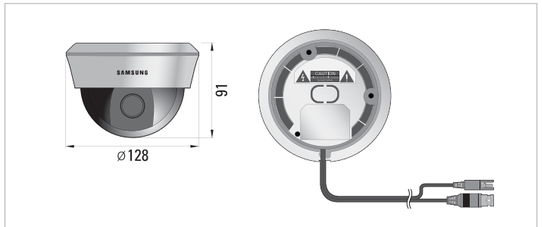


Specifications

Model			SCC-B5352	SCC-B5353
Camera Type			1/3" Day & Night Color Fixed Dome Camera	
Image	Device		Super-HAD IT CCD	
	Effective Pixels	NTSC	811(H) x 508(V)	768(H) x 494(V)
		PAL	795(H) x 596(V)	752(H) x 582(V)
Scanning	System		NTSC : 525 Line, 2:1 Interlace / PAL : 625 Line, 2:1 Interlace	
Minimum Scene Illumination		Color	0.0009(Sens up 128x, 15IRE)Lux	0.0009(Sens up 128x, 15IRE)Lux
		B/W	0.0009(Sens up 128x, 15IRE)Lux	0.00009(Sens up 128x, 15IRE)Lux
Functions	Day & Night		Yes(Electric)	Yes(Moving Filter)
	Sens Up(LSS)		Off, AUTO 128x	
	BLC		Yes(On/Off)	
	FLC		Yes(On/Off)	
Horizontal Resolution			540TV Lines	
Video Output			VBS 1.0Vp-p (75Ω, Composite)	
Lens	Focal Length		2.5~6.0mm	
	Viewing Angle	Horizontal	108°(Wide) ~ 46°(Tele)	
		Vertical	80°(Wide) ~ 34°(Tele)	
Operating Temperature			-10°C~50°C	
Operating Humidity			Within 90% RH	
Power Requirement			AC24V / DC12V Compatible	
Power Consumption			1.7W	
Weight			327g	
Dimensions			128(ø) x 91(H)mm	
Body Color	White		SCC-B5352	SCC-B5353
	Titan Silver		SCC-B5352S	SCC-B5353S

*SCC-B5354 is same as SCC-B5352 except for Focal length of Lens. (2.9~10mm)
SCC-B5355 is same as SCC-B5353 except for Focal length of Lens. (2.9~10mm)

Dimensions (unit:mm)



1/3" Color Vari-Focal Anti Vandal Dome Camera

SCC-B5392/B5393
SCC-B5394/B5395

Features

- Horizontal resolution : 540 TV Lines
- Minimum scene illumination : (SCC-B5392 : 0.0009Lux
  SCC-B5393 : 0.0009(color)/0.00009(B/W) Lux)
- External impact protection, water resistant and dust resistant (IP66 grade)
- Horizontal and vertical mirroring
- 3-axis design • IP66 grade
- DNR (Digital Noise Reduction)
- Variable focal length of lens (2.5-6mm / 2.9-10mm)

External impact protection, waterproof and dust proof

The SCC-B539X camera uses a polycarbonate dome cover, so that it is resistant to external impact. The camera housing is also water resistant and dust proof.

Impact

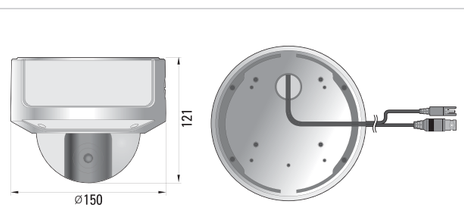
Waterproof

Specifications

Model			SCC-B5392	SCC-B5393
Camera Type			1/3" Day & Night Color Fixed Dome Camera	
Image	Device		Super-HAD IT CCD	
	Effective Pixels	NTSC	811(H) x 508(V)	768(H) x 494(V)
		PAL	795(H) x 596(V)	752(H) x 582(V)
Scanning	System		NTSC : 525 Line, 2:1 Interlace / PAL : 625 Line, 2:1 Interlace	
Minimum Scene Illumination		Color	0.0009(Sens up 128x,15IRE)Lux	0.0009(Sens up 128x,15IRE)Lux
		B/W	0.0009(Sens up 128x,15IRE)Lux	0.00009(Sens up 128x,15IRE)Lux
Functions	Day & Night		Yes(Electric)	Yes(Moving Filter)
	Sens Up(LSS)		Off, AUTO 128x	
	BLC		Yes(On/Off)	
	Anti Vandal		Yes(IP66 Grade)	
Horizontal Resolution			540TV Lines	
Video Output			VBS 1.0Vp-p (75Ω, Composite)	
Lens	Focal Length		2.5~6.0mm	
	Viewing Angle	Horizontal	108°(Wide) ~ 46°(Tele)	
		Vertical	80°(Wide) ~ 34°(tele)	
Operating Temperature			-10°C~50°C	
Operating Humidity			Within 90% RH	
Power Requirement			AC24V / DC12V compatible	
Power Consumption			1.7W	
Weight			960g	
Dimensions			150(ø) x 121(H)mm	
Body Color			EMS Pearl White	

* SCC-B5394 is same as SCC-B5392 except for Focal length of Lens. (2.9~10mm)
  SCC-B5395 is same as SCC-B5393 except for Focal length of Lens. (2.9~10mm)

Dimensions (unit:mm)



Anti Vandal Dome Camera

SCC-931T

Features

- Polycarbonate dome cover that is highly resistant to external shocks and willful acts of vandalism
- Water resistant and dust resistant (IP66)
- 1/4" Super HAD CCD 410K/470K
- 12x optical zoom lens / 10x digital zoom
- Minimum scene illumination : 0.005 Lux
- RS-485 remote control
- AC24V / DC12V
- SADT-101WM : wall-mountable bracket (white) (optional)

Anti Vandal

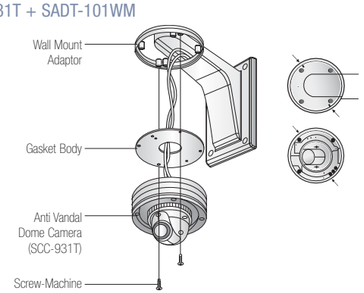
This device is suitable for external installation, thanks to a special structure that protects against willful external shocks, water and dust.

Shock-resistant

Water resistant (IP66)

Installation Method (Wall Surface)

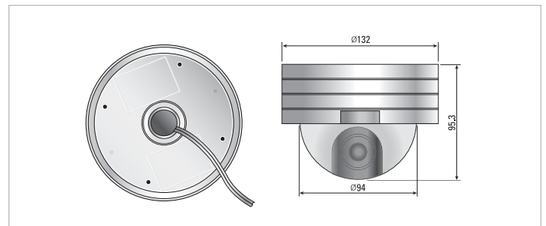
SCC-931T + SADT-101WM



Specifications

Model			SCC-931T	SCC-931TP
Imaging Device			1/4" Super HAD CCD	
Effective Pixels			768(H)x494(V)	752(H)x582(V)
Scanning Method			2:1 Interlace	
Horizontal Resolution			480 TV Lines	
Synchronization Method			Internal/Line lock	
Signal Output			VBS 1.0Vp-p, 75ohm, BNC	
S/N Ratio			52dB	
Minimum Scene Illumination	Color		0.005(Sens up 128x,15IRE)Lux	
	B/W		N/A	
Lens	Zoom Ratio		12x Optical, 10x Digital	
	Focal Length		3.6 ~ 43.2mm	
	Viewing Angle	Tele	4°.7'(H) x 3°.6'(V)	
		Wide	52°.8'(H) x 40°.3'(V)	
Functions	Shutter Speed		Off ~ 1/10,000 sec	
	Sens Up		Max 128x (Auto/FIX/Off)	
	Motion Detection		On/Off	
	Focus		AF/OneAF/Manual	
	White Balance		ATW / AWC / Manual	
Remote Control			RS-485(Half Duplex)	
Power Requirment			AC24V / DC12V Compatible	
Weight			1,000g	
Dimensions			132(ø) x 95.3(D)mm	

Dimensions (unit:mm)



Anti Vandal 3-Axis Day & Night, WDR Dome Camera

SCC-C9302(F)

Features

- Polycarbonate dome cover that is highly resistant to external shocks and willful acts of vandalism
- Convenient installation, with its 3-axis turning design (pan: 355°, tilt: 20°~ 90°)
- Water resistant and dustproof (IP66)
- 1/4" Ex-View CCD 410K/470K
- Horizontal resolution : 480 TV lines
- Minimum scene illumination : 0.002(color)/0.0002(B/W) Lux
- 120x zoom lens (12x optical, 10x digital)
- 128x WDR (Wide Dynamic Range)
- Day & Night
- Motion Detection (zones and sensitivity level set by user)
- Alarm input: 1Ch / alarm output: 1Ch
- Privacy protection allows up to 8 privacy zones
- Remote control through RS485 and RS422 (using SCC-1000/2000)
- SADT-102WM : wall-mountable bracket (white) (optional)

Anti Vandal

This device is suited for external installation, thanks to its special structure that resists willful external shocks, water and dust.

Shock-resistant

Water resistant (IP 66)

Minimum Scene Illumination of 0.0002Lux

By converting the speed of light entering into each area, an object can be accurately detected even in low-illumination. The minimum scene illumination of 0.0002 Lux allows capturing of much more vivid images, with performance far greater than typical cameras.

General

Minimum scene illumination

12x Optical Zoom

120x magnification allows for greater ease in object identification. This is performed through a combination of a 12x optical auto focus zoom lens, and 10x digital zoom.

3-axis dome design makes it installable on a wall or on an inclined surface

Thanks to its 3-dimensional lens and dome design, the SCC-C9302(F) can be easily installed even in the restricted environment of a wall or inclined surface, with the turning lens able to move freely 355° left/right and 90° up/down. Most existing surveillance cameras are difficult to install in these circumstances.

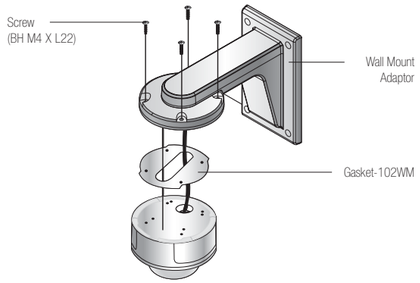
Wall

Ceiling

Inclined Surface

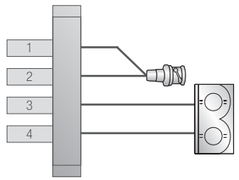
Method of Installing onto the Surface of a Wall

SCC-C9302 + SADT-102WM



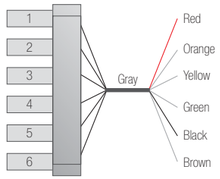
External Connector Pin Specification

CN52 : Camera power input and image signal output



Pin no.	Pin Spec
1	VBS_OUT
2	GND
3	AC24-
4	AC24+

CN51 : RS485 control and alarm output



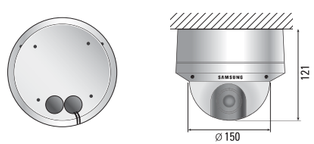
Pin no.	Pin Spec
1	485_B(-)
2	485_A(+)
3	GND(COM)
4	Alram Input
5	GND
6	Alram Output

Specifications

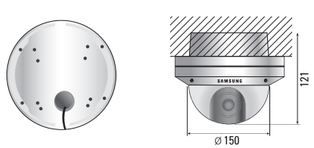
Model			SCC-C9302(F)	SCC-C9302(F)P
Imaging Device			1/4" Ex-View CCD	
Effective Pixels			768(H)x494(V)	752(H)x582(V)
Scanning Method			2:1 Interlace	
Horizontal Resolution			480 TV Lines	
Synchronization Method			Internal/Line lock	
Signal Output			VBS 1.0Vp-p, 74ohm, BNC	
S/N Ratio			52dB	
Minimum Scene Illumination	Color		0.002(Sens up 160x,15IRE)Lux	
	B/W		0.0002(Sens up 160x,15IRE)Lux	
Pan/Tilt	Pan Angle		355°	
	Tilt Angle		20°~ 90°	
Lens	Zoom Ratio		120x(12x Optical, 10x Digital)	
	Focal Length		3.6 ~ 43.2mm	
	Apeture Ratio		F1.8(Wide), F2.6(Tele)	
	Viewing Angle	Tele	4°7'(H) x 3°6'(V)	
		Wide	52.8°(H) x 40°3'(V)	
Focus			OneAF/Manual	
Functions	Wide Dynamic Range		Off/On(128x)	
	Day & Night		Color/BW/Auto	
	Digital Zoom		Off/On, PIP	
	Motion Detection		Off/On(Area/Sensitivity Setting)	
	Shutter Speed		Off ~ 1/10,000 sec	
	Sens Up		Off/Auto(2x ~ 160x)	
	BLC		Off/On(Area Setting)	
	AGC		Off/On	
	Line Lock		Yes	
	Camera ID		Max. 20 Characters	
	White Balance		ATW1/ATW2/AWC/Manual	
	Privacy Zone		Up to 8 Zones, Set by User	
Input/Output	Image Output		1 BNC	
	Alarm Input		1 (No, 5mA Sink)	
	Alarm Output		1 (Open Collector)	
	Remote Control		RS485(Half Duplx)	
	Power		Terminal Bolck(2-Pin)	
Operating Temperature			-10ºC ~ 50ºC	
Operating Humidity			Maximum 90% RH	
Power Requirment			AC24V / DC12V Compatible	
Power Consumption			6W	
Weight			1,100g(880g)	
Dimensions			150(ø) x 121(D)mm	
Appearance			SCC-C9302 : Ceiling-mountable	
			SCC-C9302F: Embedded into the ceiling	

Dimensions (unit:mm)

SCC-C9302 (for attaching to the ceiling)



SCC-C9302F (for embedding into the ceiling)



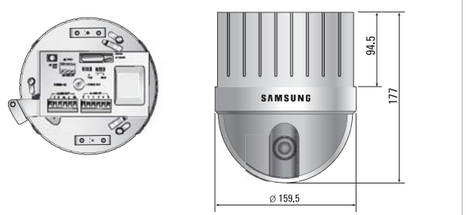
22x Zoom SmartDome Camera

SCC-641/643A

Features

- Accurately captures distant object with the maximum 220x zoom.
- Possible to connect up to a maximum of 256 cameras using the exclusive controller (SSC-1000) made by Samsung, which can control a range of functions including pan, tilt, zoom, preset and manual focus
- Minimum scene illumination : 0.005(color)/0.0005(B/W) Lux
- Day & Night (SCC-643A)
- Privacy zone (SCC-643A)
- Up to 128 preset points
- 360° horizontal and 180° vertical turning while searching, at a maximum speed of 240°/sec
- Motion detection
- Alarm Input: 4Ch, Alarm Output: 3Ch
- Horizontal resolution : 480 TV Lines
- Remote control through RS-485/RS-422
- Pan/tilt/zoom/focus can be controlled from a PC (separate software required)

Dimensions (unit:mm)



Specifications

Model		SCC-641(P)	SCC-643A(P)
Imaging Device	NTSC	1/4" Super HAD CCD 410K pixles	
	PAL	1/4" Super HAD CCD 470K pixles	
Effective Pixels		NTSC : 768(H)x494(V) / PAL : 752(H)x582(V)	
Scanning Method		2:1 Interlace	
Scanning Line	Horizontal	NTSC : 15.750Hz / PAL : 15.625Hz	
Frequency	Vertical	NTSC : 60Hz / PAL : 50Hz	
Synchronization Method		Internal/ Line Lock	
Horizontal Resolution		480 TV Lines	
Signal Output		VBS 1.0Vp-p(75 ohm, Composite)	
S/N Ratio		52dB	
Minimum Scene Illumination	Color	0.005(Sens up 128x,15IRE)Lux	
	B/W	-	0.0005(Sens up 128x,15IRE)Lux
Pan/Tilt	Manual Pan /Tilt Speed	Pan : 0.8°~90°/sec(64Step)	
		Tilt : 0.8°~45°/sec(64Step)	
	Preset Pan/Tilt Speed	Pan : Max 240°/sec / Tilt : Max 150°/sec	
	Pan/Tilt Range	Pan : 360° Endless / Tilt : 0°~ 90°	
	Number of Preset	128 Presets	
	Number of Pattern	3 (30sec x 3)	
Lens	Zoom Ratio	220x (22x Optical Zoom, 10x Digital Zoom)	
	Focal Length	3.6~79.2mm	
	Aperature Ratio	F1.6(Wide), F3.8(Tele)	
	Viewing Angle Tele	2°3'(H) x 1°7'(V)	
	Viewing Angle Wide	47°9'(H) x 36°9'(V)	
Functions	Sens Up	128x(Auto/Fix)	
	Digital Effect	H-Mirror, Picture in Picture (D Zoom)	
	White Balance	ATW/AWC/Manual	
	BLC	On (Zone Setting, Position Designation)/ Off	
	Privacy Zone	-	Possible to Set 8 Zones
Input/Output	Image Output	BNC	
	Remote Control	RS-485(Half Duplex) / RS-422	
	Address Range	1~128	
	Alarm Input	4 NO/NC(5mA Sink)	
Operating Temperature		-10°C ~ +50°C	
Operating Humidity		Maximum 90% RH	
Power Requirment		AC24V	
Power Consumption		18W	
Weight		2.0Kg	
Dimensions		159.5(ø) x 177(D)mm	

32x Zoom Day & Night SmartDome Camera

SCC-C6403

Features

- 1/4" Super-HAD CCD 410K/470K
- DIS (Digital Image Stabilizer)
- 320x zoom, through a combination of 32x optical zoom and 10x digital zoom
- Minimum scene illumination : 0.005(color)/0.0005(B/W) Lux
- Day & Night
- 350° horizontal turning and 0~90° vertical turning while searching, at a maximum speed of 400°/sec (pan speed)
- 128 preset points
- Alarm input : 4Ch, alarm output : 3Ch
- Exclusive controller (SSC-1000/2000)
  - Remote control through RS485 and RS422
  - Possible to connect up to a maximum of 256 cameras, and control a wide range of functions such as pan, tilt, zoom, preset and manual focus

The world's first 32x optical zoom for security cameras

This allows magnification up to a maximum of 320x, providing detection of distant objects with greater accuracy.

32x optical zoom

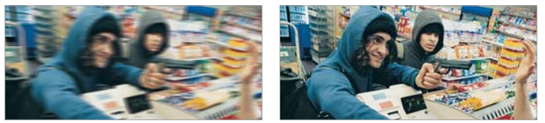
Minimum scene illumination of 0.0005 Lux

By controlling the light sensitivity entering into each area, an object can be accurately detected even in low-illumination. With a minimum illumination of 0.0005 Lux, the image-capturing performance is far greater than typical cameras.

General | Minimum scene illumination

DIS (Digital Image Stabilizer)

By correcting the image-shake caused by some form of shaking on the camera, the camera is able to produce crisper images.



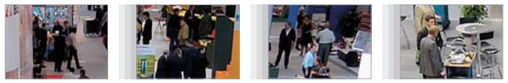
DIS Off | DIS On

Remote control through RS485 and RS422

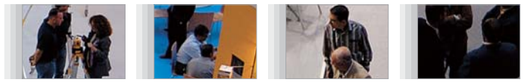
Using the exclusive controller, up to a maximum of 256 cameras can be connected, and wide range of functions, including pan, tilt, zoom, preset and manual focus can be controlled.

Maximum of 128 Preset Points

This camera allows the user to set a maximum of 128 preset points, each of which can have their own defined actions, such as Dwell Time and method (moving speed, ID, Iris, Shutter and Speed).
User convenience is maximized, through the "image hold" function when moving between preset points.

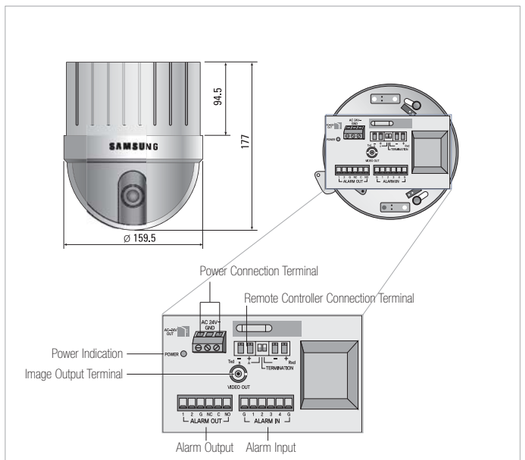


Preset 1 ····· Preset 23 ····· Preset 35 ····· Preset 49 ·····



···· Preset 68 ····· Preset 85 ····· Preset 101 ····· Preset 128

Dimensions (unit:mm)



Specifications

Model			SCC-C6403	SCC-C6403P
Imaging Device			1/4" 410K Pixel Color Super-HAD CCD	1/4" 470K Pixel Color Super-HAD CCD
Effective Pixels			768(H) x 494(V)	752(H)x582(V)
Scanning Method			2:1 Interlace	
Synchronization Method			Internal/Line lock	
Horizontal Resolution			480 TV Lines	
Signal Output			VBS 1.0Vp-p, 74ohm, BNC	
S/N Ratio			50dB	
Minimum Scene Illumination	Color		0.005(Sens up 128x,15IRE)Lux	
	B/W		0.0005(Sens up 128x,15IRE)Lux	
Pan/Tilt	Manual Pan/Tilt Speed		Pan : 0.1° ~ 180°/sec(64 Steps) / Tilt : 0.1° ~ 90°/sec(64 Steps)	
	Preset Pan/Tilt Speed		Pan : 400°/sec / Tilt : 200°/sec	
	Preset Pan/Tilt Rage		350° Non-Endless	
	Pan/Tilt Range		Pan : 350°, Tilt : 0°~ 90°	
	Number of Auto Pan		4	
	Number of Preset		128	
	Number of Pattern		2min x 3	
Lens	Zoom Ratio		320x(32x Optical, 10x Digital)	
	Focal Length		3.55 ~ 113mm	
	Apeture Ratio		Tele : F4.17, Wide : F1.69	
	Viewing Angle	Tele	1°78'(H) x 1°34'(V)	
		Wide	56.41°(H) x 43°01'(V)	
Functions	Day & Night		Color/BW/Auto	
	Shutter Speed		Off ~ 1/10,000 sec	
	Sens Up		128x	
	BLC		Off/On	
	AGC		Off/Low/High	
	Line Lock		Yes	
	Camera ID		Max. 20 Characters	
	White Balance		ATW1/ATW2/AWC/Manual	
Input/Output	Image Output		1 BNC	
	Alarm Input		4 NO/NC(5mA Sink)	
	Alarm Output		3 (2 Open Collector, 1 Relay)	
	Remote Control		RS485(Half & Full Duplx)/RS422	
	Power		Terminal Block(3-Pin)	
Operating Temperature			-10ºC ~ 50ºC	
Operating Humidity			Maximum 90% RH	
Power Requirment			AC24V	
Power Consumption			18W	
Weight			1.7Kg	
Dimensions			159.5(ø) x 177(D)mm	

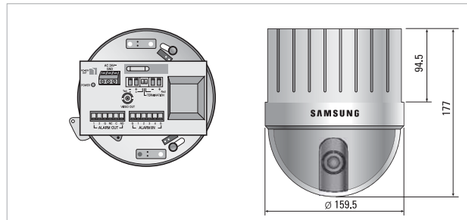
220x Power Zoom, Day & Night, WDR SmartDome Camera

SCC-C6405

Features

- 22x motorized optical zoom with 10x digital zoom
- High-speed pan/tilt (400°/sec)
- 1/4" Ex-View HAD CCD 410K/470K
- Horizontal resolution : 480 TV Lines
- DSP (Digital Signal Processor)
- WDR (Wide Dynamic Range)
- Day & Night
- External eynchronization with line lock
- Motion detection with alarming output
- On-screen menus (multi-language)
- Innor rotor BLDC motor
- Minimum scene illumination : 0.002(color)/0.0002(B/W) Lux
- 4 alarm inputs, 3 alarm outputs
- Privacy zone

Dimensions (unit:mm)



Specifications

Model			SCC-C6405
Imaging Device			1/4" Ex-View HAD CCD
Effective Pixels			768(H) x 494(V)
Scanning Method			Interlace
Synchronization Method			Internal/Line lock
Horizontal Resolution			480 TV Lines
Signal Output			VBS 1.0Vp-p
S/N Ratio			50dB
Minimum Scene Illumination	Color		0.002(Sens up 160x,15IRE)Lux
	B/W		0.0002(Sens up 160x,15IRE)Lux
Pan/Tilt	Manual Pan/Tilt Speed		Pan : 0.1°/sec~180°/sec(64Step) / Tilt : 0.1°/sec~90°/sec(64Step)
	Preset Pan/Tilt Speed		Pan : 400°/sec(Max) / Tilt : 200°/sec(Max)
	Panning Range		360°/sec(Endless)
	Tilt Range		0°~ 180°
	Number of Auto Pan		4
	Number of Preset		128
	Number of Pattern		3
Lens	Zoom Ratio		22x
	Focal Length		3.6 ~ 79.2mm
	Apeture Ratio		F1.6(Wide), F3.8(Tele)
	Viewing Angle	Tele	2°3'(H) x 1°7'(V)
		Wide	47°9'(H) x 36°9'(V)
Functions	Day & Night		Color/BW/Auto
	High Speed Shutter		Off ~ 1/10Ksec
	Sens Up		Off ~ 160x
	BLC		Off/On
	AGC		Off/Low/High
	Line lock		On/Off
	Camera ID		Off/On
	White Balance		ATW1/ATW2/AWC/Manual
Input/Output	Alarm Input		4
	Alarm Output		3
	Remote Control		RS485
Operating Temperature			-10ºC ~ +50ºC
Power Requirment			AC24V
Power Consumption			18W
Weight			1.7kg
Dimensions			159.5(ø) x 177(D)mm

32x Zoom Day & Night, WDR SmartDome Camera

SCC-C6407

Features

- 1/4" Ex-View CCD 410K/470K
- DIS (Digital Image Stabilizer)
- 320x zoom, through a combination of 32x optical Zoom and 10x digital zoom
- Minimum scene illumination : 0.002(color)/0.0002(B/W) Lux
- Day & Night
- 128x WDR (Wide Dynamic Range)
- Possible to connect up to a maximum of 256 cameras using the exclusive controller (SSC-1000/2000), which can control a variety of functions such as pan, tilt, zoom, preset, pattern and manual focus
- 360° horizontal and 180° vertical turning, at a maximum speed of 400°/sec
- Maximum 128 preset
- Motion detection (zones and sensitivity levels set by user)
- Alarm Input : 8ch, Alarm Output : 3ch
- Maximum of 12 privacy zones
- Remote control through RS485 and RS422 (using SSC-1000/2000)

The world's first 32x optical zoom

Up to 320x zoom, through a combination of 32x optical zoom and 10x digital zoom, allows for easy identification of distant objects.

Minimum scene illumination of 0.0005 Lux

By controlling the light sensitivity entering into each area, an object can be accurately detected even in low-illumination. With a minimum illumination of 0.0005 Lux, the image-capturing performance is far greater than typical cameras.

General

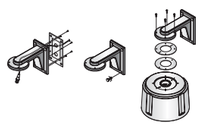
Minimum scene illumination

Installation

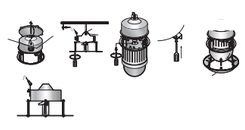
SHG-120

SHG-220

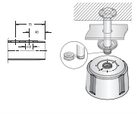
SADT-100WM/101WM



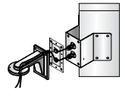
SBR-100DCM



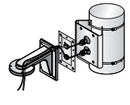
SADT-100CM



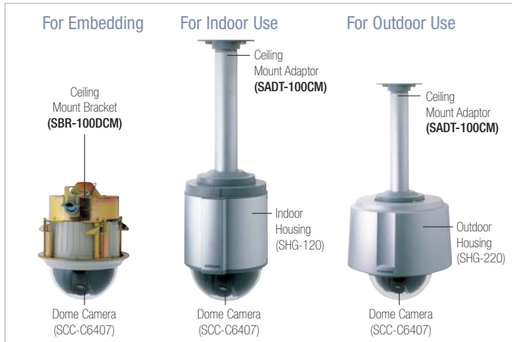
SADT-110CM



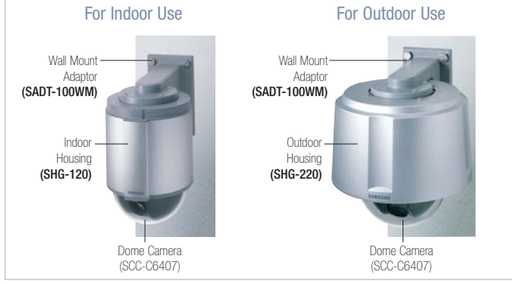
SADT-100PM



When Installing on the Ceiling,



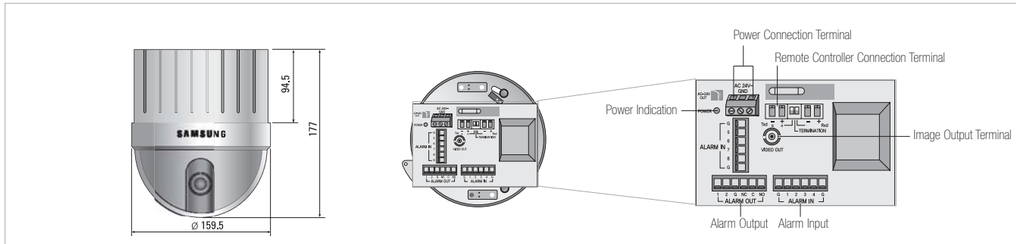
When Installing on the Wall,



Accessories for SCC-C6407

SHG-120/220 | SADT-100WM/101WM | SADT-100CM | SBR-100DCM | SADT-110CM | SADT-100PM

Dimensions (unit:mm)



Specifications

Model		SCC-C6407	SCC-C6407P
Imaging Device		1/4" 410K Pixel Ex-View CCD	1/4" 470K Pixel Ex-View CCD
Effective Pixels		768(H)x494(V)	752(H)x582(V)
Scanning Method		2:1 Interlace	
Scanning Line	Horizontal	15.750KHz	15.625Hz
Frequency	Vertical	60Hz	50Hz
Synchronization Method		Internal/Line Lock	
Horizontal Resolution		480 TV Lines	
Signal Output		VBS 1.0Vp-p(75 Ohm, Composite)	
S/N Ratio		50dB(AGC Off)	
Minimum Scene Illumination	Color	0.002(Sens up 160x,15IRE)Lux	
	B/W	0.0002(Sens up 160x,15IRE)Lux	
Pan/Tilt	Manual Pan/Tilt Speed	Pan : 0.1 ~ 180°/sec(64 steps) / Tilt : 0.1 ~ 90°/sec(64 steps)	
	Preset Pan/Tilt Speed	Pan : 400°/sec / Tilt : 200°/sec	
	Preset Pan/Tilt Rage	Pan : 360°(endless) / Tilt : 0°~ -183°	
	Pan/Tilt Range	Pan : 360° (endless) / Tilt : 0°~ 180°	
	Number of Auto Pan	4	
	Number of Preset	128	
	Number of Pattern	3(2min x3)	
Lens	Zoom Ratio	320x(32x Optical, 10x Digital)	
	Focal Length	3.55 ~ 113mm	
	Aperture Ratio	Tele : F4.17, Wide : F1.69	
	Viewing Angle Tele	1°78'(H)x1°34'(V)	
	Viewing Angle Wide	56°41'(H)x43°01'(V)	
Functions	Wide Dynamic Range	Off/On(128x)	
	Day & Night	Color/BW/Auto/EXT	
	Motion Detection	Off/On (Area/Sensitivity Setting)	
	High Speed Shutter	Yes (Off ~ 1/10K)	
	Sens Up	Off/Auto (2x ~ 160x)	
	BLC / AGC	Off/On	
	Line Lock	Yes	
	Camera ID	Max. 20 Characters	
	White Balance	ATW1/ATW2/AWC/Manual	
	Privacy Zone	12 Zones (Mosaic)	
Input/Output	Image Output	BNC	
	Alarm Input	8 NO/NC(5mA Sink)	
	Alarm Output	3 (Open Collector 1 Relay)	
	Remote Control	RS485(Half & Full Duplex)/RS422	
	Power	Terminal Block(3-Pin)	
Operating Temperature		-10ºC~ +50ºC	
Operating Humidity		Maximum 90% RH	
Power Requirment		AC24V	
Power Consumption		22W	
Weight		1,700g	
Dimensions		159.5(ø) x 177(D)mm	

High Resolution SmartDome Camera

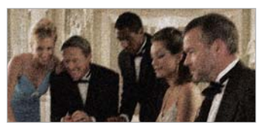
SCC-C6433/6435 NEW

Features

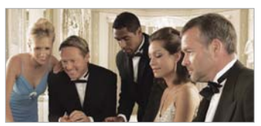
- 1/4" 410K/470K pixels CCD
- 32x optical zoom lens (16x D-zoom)
- High resolution : 540(Color) / 570(BW) TV Lines
- Day & Night
- Minimum scene illumination :
  (SCC-C6433(P) : 0.002 Lux (15 IRE, Sens-up 256x, Color)
  : 0.0002 Lux (15 IRE, Sens-up 256x, B/W)
  SCC-C6435(P) : 0.001 Lux (15 IRE, Sens-up 256x, Color)
  : 0.0001 Lux (15 IRE, Sens-up 256x, B/W))
- 128x(NTSC)/160x(PAL) WDR function (SCC-C6435(P) only)
- Full auto focus function • Privacy mask zone (16 area)
- Pan (max 400°/sec), Tilt (200°/sec)
- 360° endless pan (Slip-ring), 0~180° tilt
- RTC function for schedule setting
- Multi-protocol (more than 8 companies), multi-OSD

High Resolution

540(Color) / 570(BW) TV Lines
This camera has realized the high resolution 540 lines using the full digital image processing and special algorithm technologies.

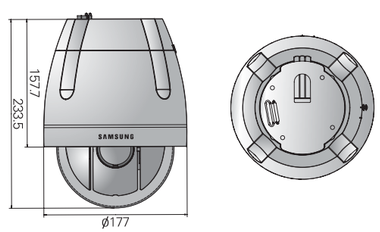


480 TV Lines



540 TV Lines

Dimensions (unit:mm)

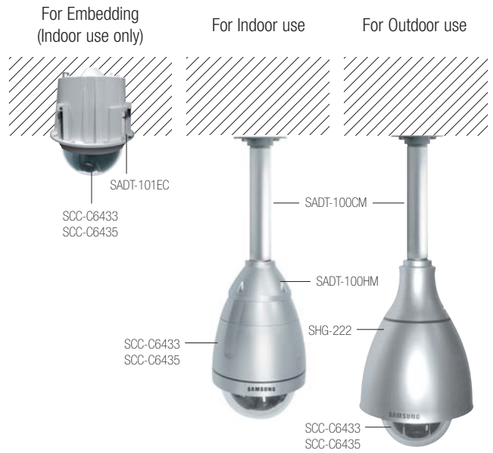


Specifications

Model			SCC-C6433(P)	SCC-C6435(P)
Camera Type			Color	
Image	Device		1/4" Super HAD CCD	1/4" Ex-View HAD CCD
	Effective Pixels	NTSC	768(H) x 494(V)	768(H) x 494(V)
		PAL	752(H) x 582(V)	752(H) x 582(V)
Minimum Scene Illumination		Color	0.6 Lux(15IRE,Sens-up Off)	0.3 Lux(15IRE,Sens-up Off)
			0.002 Lux(15IRE, Sens-up 256x)	0.001 Lux(15IRE, Sens-up 256x)
		B/W	0.06 Lux(15IRE,Sens-up Off)	0.03 Lux(15IRE,Sens-up Off)
			0.0002 Lux(15IRE, Sens-up 256x)	0.0001 Lux(15IRE, Sens-up 256x)
PAN/TILT	Speed	Manual Pan	0.1~180°/sec	
		Preset Pan	400°/sec	
		Manual Tilt	0.1~90°/sec	
		Preset Tilt	200°/sec	
	Range	Panning	0~360° (Endless)	
		Tilting	0~180°	
	Number of Auto PAN		4	
	Number of Preset		128	
	Number of Pattern		3	
Functions	Number of Privacy Zone		16	
	Day & Night		Color/BW/Auto (Moving Filter)	
	Line Lock		INT/Line Lock	
	White Balance		ATW1/ATW2/AWC/MANUAL	
	D-Zoom		Yes (~16x)	
	High Speed Shutter		Yes (OFF ~ 1/10K)	
	Motion Detection		Yes	
	Sens Up		Yes (2x ~ 256x)	
	Camera ID		Max 20 Character	
	Remote Control		RS485(Half&Full Duplex)/RS422	
	Alarm	Input	8	
		Output	3(Open Collector 1 relay)	
	Wide Dynamic Range		N/A	Yes
Horizontal Resolution			540(Color)/570(BW) TV Lines	
Video Output			VBS 1.0Vp-p	
S/N Ratio			About 50 dB	
Lens	Focal Length		3.55 ~ 113mm	
	Zoom Ratio		32x Optical	
	Aperture Ratio		F1.69(W)/F4.17(T)	
	Viewing Angle	Tele	1.78°(H) x 1.34°(V)	
		Wide	56.41°(H) x 43.01°(V)	
Operating Temperature			-10°C ~ + 50°C	
Operating Humidity			Less than 90%	
Power Requirement			NTSC : AC24 V, 60Hz / PAL : AC24 V, 50Hz	
Power Consumption			19W	20W
LED Indicator			Yes	
Dimensions			177(ø) X 233.5(H)mm	
Weight			2400g	
Color			Silver	

Housing Installation Guide

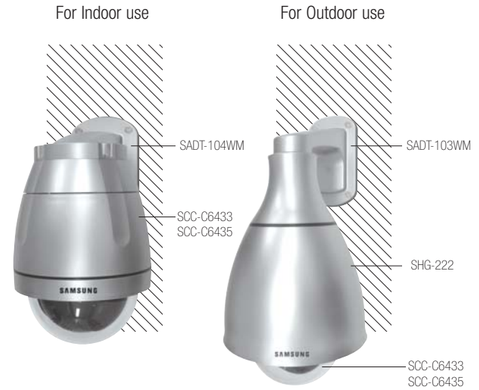
Ceiling Installation



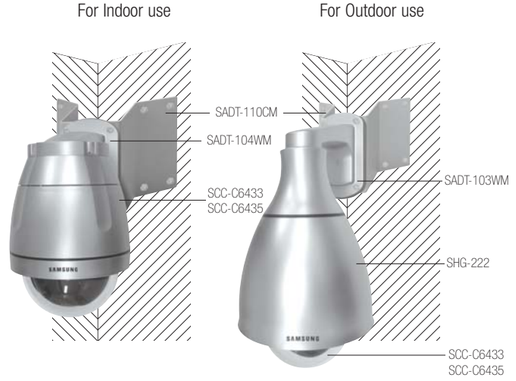
Pole Installation

Pole (1.5" NPT) Installation

Wall Installation



Corner Installation



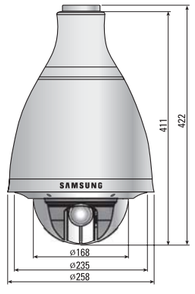
High Resolution SmartDome Camera

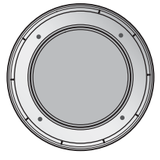
SCC-C7433/C7435 NEW

Features

- 1/4" 410K/470K pixels Ex-View HAD PS CCD (SCC-C7435)
  1/4" 410K/470K pixels Super HAD IT CCD (SCC-C7433)
- 32x optical zoom lens (16x D-zoom)
- High resolution : 540(Color)/570(BW) TV lines
- Day & Night (moving filter)
- Minimum scene illumination :
  (SCC-C7435 : 0.001 Lux (15 IRE, 256x Sens-up, Color)
  SCC-C7433 : 0.002 Lux (15 IRE, 256x Sens-up, Color))
- 128x(NTSC) / 160x(PAL) WDR function (SCC-C7435)
- Full auto focus function
- Pan (max 400˚/sec), tilt (200˚/sec)
- 360˚ endless pan(slip-ring), 0~180˚ tilt
- RTC function for schedule setting
- Multi-protocol (more than 8 companies), multi-OSD
- Remote control : RS485(half & full duplex)/RS-422
- Operating temp.(-45℃~50℃) with fan / heater
- Water / dust resistant(IP66)

Dimensions (unit:mm)





Specifications

Model			SCC-C7433(P)	SCC-C7435(P)
Camera Type			Color	
Image	Device		1/4" Super-HAD IT CCD	1/4" Ex-View-HAD CCD
	Effective Pixels		NTSC : 768 x 494 / PAL : 752 x 582	
Min. Scene Illumination	Color		0.6 Lux(15IRE,Sens-up Off)	0.3 Lux(15IRE,Sens-up Off)
			0.002 Lux(15IRE, Sens-up 256x)	0.001 Lux(15IRE, Sens-up 256x)
	B/W		0.06 Lux(15IRE,Sens-up Off)	0.03 Lux(15IRE,Sens-up Off)
			0.0002 Lux(15IRE, Sens-up 256x)	0.0001 Lux(15IRE, Sens-up 256x)
PAN/TILT	Speed	Manual Pan	0 ~180˚/sec	
		Preset Pan	400˚/sec	
		Manual Tilt	0.1~90˚/sec	
		Preset Tilt	200/sec	
	Range	Panning	0~360˚/sec (Endless)	
		Tilting	0~180˚	
	Number of Auto PAN		4	
	Number of Preset		128	
	Number of Pattern		3	
Functions	Number of Privacy Zone		16	
	Day & Night		Color/BW/Auto (Moving Filter)	
	Line Lock		INT/Line Lock	
	White Balance		ATW1/ATW2/AWC/MANUAL	
	D-Zoom		Yes(~16x)	
	High Speed Shutter		Yes (OFF ~ 1/10K)	
	Motion Detection		Yes	
	Sens Up		Yes(2x ~ 256x)	
	Camera ID		Max 20 Character	
	Remote Control		RS485(Half&Full Duplex)/RS422	
	Alarm	Input	8	
		Output	3(Open Collector 1 relay)	
	Wide Dynamic Range		N/A	Yes
Horizontal Resolution			540(Color)/570(BW) TV Lines	
Video Output	VBS 1.0Vp-p		VBS 1.0Vp-p	
S/N Ratio			about 50 dB	
Lens	Focal Length		3.55 ~ 113mm	
	Zoom ratio		32x Optical	
	Aperture Ratio		F1.69(W)/F4.2(T)	
	Viewing Angle	Tele	1.78˚(H) x 1.34˚(V)	
		Wide	56.41˚(H) x 43.01˚(V)	
Operating Temperature			-45˚C ~ + 50˚C	
Operating Humidity			Less than 90%	
Power Requirement			NTSC : AC24V, 60Hz / PAL : AC24V, 50Hz	
Power Consumption			24W (Only Camera) / 55W (With Fan & Heater)	
LED Indicator			Yes	
Dimensions			258(Ø) X 422(H)mm	
Weight			5,950g	
Color			Silver	

In/Outdoor Housing

SHG-120/220

Features

SHG-120

- For indoor use
- The place of installation should be able to bear up to 4 times of the total product weight (about 32Kg).
- Aluminum material
- IP 66

SHG-220

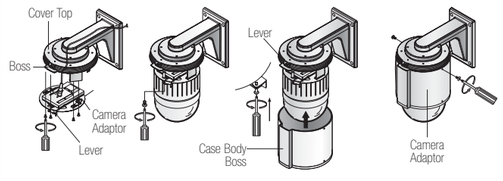
- For outdoor installation
- Aluminum material
- Built-in fan/heater function
- IP 66
- Anti-vandal

Specifications

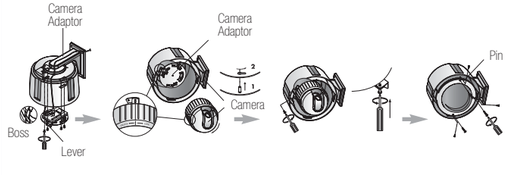
Model	SHG-120	SHG-220
Dimensions	174(Ø)x188(H)mm	266mm(Ø)x273(H)mm
Weight	1.2Kg	3.7Kg
Operating Temperature	-10~+50℃	-40~+50℃
Operating Humidity	0~90%	0~100%
Fan Operating Temperature	-	Always
Heater Operating Temperature	-	10℃ or below
Accessories	Screw(BH M3xL8) 2EA	Screw(BH M3xL12) 3EA Pin 3EA Silicon Grease 5g Teflon Tape 1EA

Installation

SHG-120

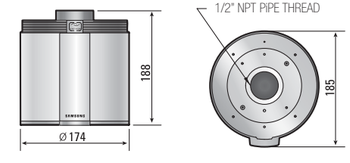


SHG-220

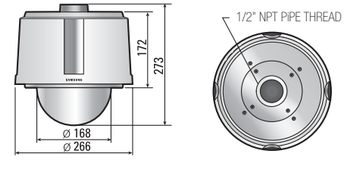


Dimensions (unit:mm)

SHG-120



SHG-220



Outdoor Housing

SHG-222 NEW

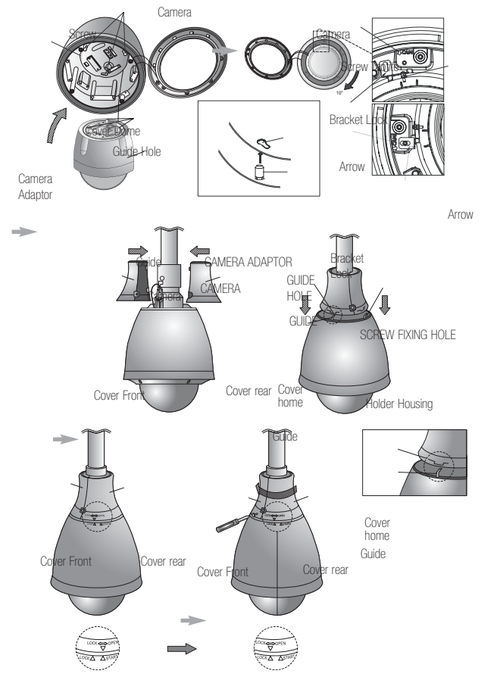
Features

- Hanging mount adaptor(included)
- Outdoor use
- Solid structure
- Aluminum/plastic material
- Applicable camera : SCC-C6433/C6435
- Applicable wall mount adaptor : SADT-103WM

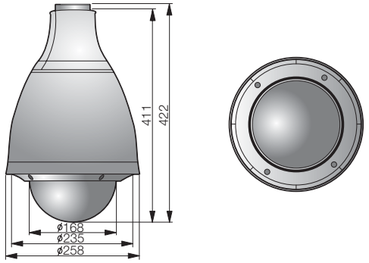
Specifications

Model	SHG-222
Materials	Aluminum & Plastic
Dimensions	258(Ø) x 422(H)mm
Weight	3.8Kg(NET)
Operating Temperature	-40~+50℃
Operating Humidity	0~100%
Fan Operating Temperature	Always
Heater Operating Temperature	Below 4℃

Installation

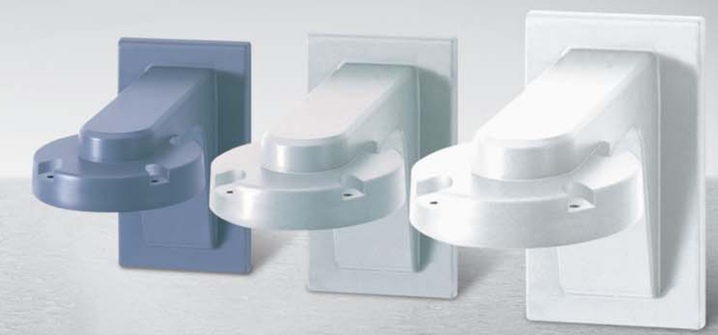


Dimensions (unit:mm)



Wall Mount Adaptor

SADT-100WM
SADT-101WM
SADT-102WM



Features

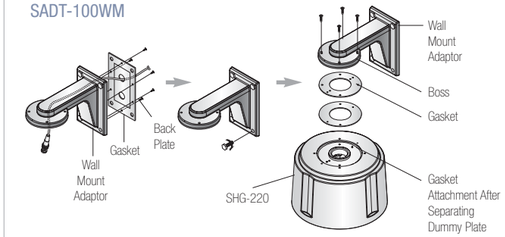
- Indoor/outdoor use
- Solid structure
- Aluminum material
- Gasket provides waterproof function
- Screws included, for camera mounting

Specifications

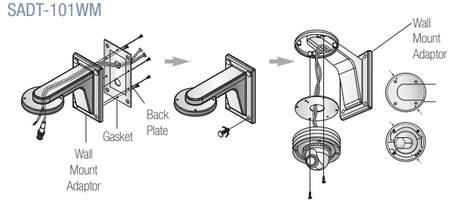
Model	SADT-100WM	SADT-101WM	SADT-102WM
Weight	800g		
Operating Temperature	-40 ~ +50℃		
Operating Humidity	0~100% RH		
Accessory	Gasket 1EA, Cable Grand(PG-11, PG-13.5), Back Plate 1EA		
	Back Plate 1EA		
	Screw(FH M3xL6) 6EA		
	Screw(PH M4xL22) 2EA	Screw(PM M4xL22) 2EA	Screw(PM M4xL22) 4EA
Applicable Camera	SCC-641/643A SCC-C640X SCC-C6475	SCC-931T	SCC-C9302 SCC-B539X

Installation

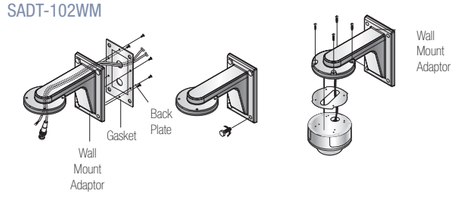
SADT-100WM



SADT-101WM

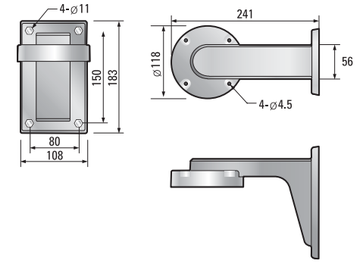


SADT-102WM



Dimensions (unit:mm)

SADT-100WM/101WM/102WM



Wall Mount Adaptor

SADT-103WM NEW
SADT-104WM

Features

SADT-103WM

- Wall mount adaptor
- Indoor/outdoor use
- Solid structure
- Aluminum material
- Applicable camera : SCC-C7433/C7435
- Applicable housing : SHG-222

SADT-104WM

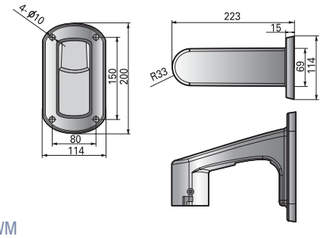
- Wall mount adaptor
- Indoor use
- Solid structure
- Plastic material
- Applicable camera : SCC-C6433/C6435

Specifications

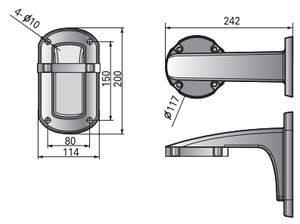
Model	SADT-103WM	SADT-104WM
Materials	Aluminum	Plastic
Dimensions	114(W) x 200(D) x 223(H)mm	114(W) x 200(D) x 242(H)mm
Weight	1250g	241g
Operating Temperature	-40~+50℃	-10~+50℃
Operating Humidity	0~100%	-

Dimensions (unit:mm)

SADT-103WM



SADT-104WM



Ceiling Mount / Corner Mount / Pole Mount Adaptor

SADT-100CM
SADT-110CM
SADT-100PM

Features

SADT-100CM

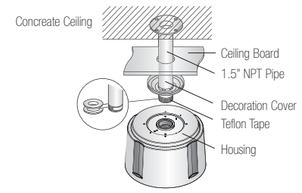
- Indoor/outdoor use
- Solid structure
- Metallic material

SADT-100PM
SADT-110CM

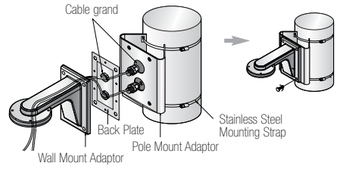
- Indoor or outdoor applications
- Supports up to 88 pounds(40Kg) : SADT-100PM
- Supports up to 97 pounds(44Kg) : SADT-110CM
- Metallic body

Installation

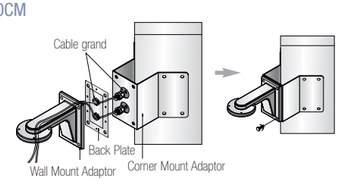
SADT-100CM



SADT-100PM



SADT-110CM



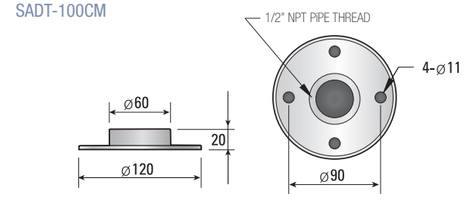
* Conditions for Installation : When installing outdoors, stainless steel must be used for the connecting materials (i.e. screws).

Specifications

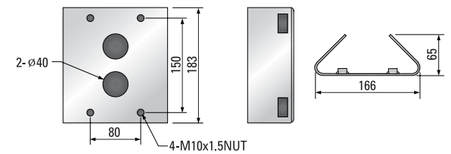
Model	SADT-100CM	SADT-110CM	SADT-100PM
Weight	1.2Kg (including the pipe)	2.1Kg	1.4Kg
Operating Temperature	-40 ~ +50℃		
Operating Humidity	0 ~ 100%		
Accessory	1.5" NPT Pipe(300mm) 1EA Decoration Cover 1EA Cable Grand(PG-13.5) 2EA	Stainless Bolt 4EA Spring Washer 4EA	Stainless Steel Mounting Strap 2EA Stainless Bolt 4EA Spring Washer 4EA

Dimensions (unit:mm)

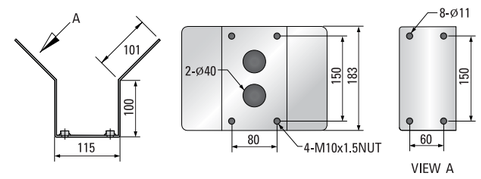
SADT-100CM



SADT-100PM



SADT-110CM



Hanging Mout Adaptor

SADT-100HM NEW

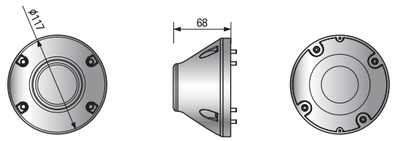
Features

- Hanging mount adaptor
- Indoor use
- Solid structure
- Aluminum material
- Applicable camera : SCC-C6433/C6435

Specifications

Model	SADT-100HM
Materials	Aluminum
Dimensions	117(Ø) x 68(H)mm
Weight	259g
Operating Temperature	-10~+50℃

Dimensions (unit:mm)



Ceiling-Mount Bracket

SBR-100DCM

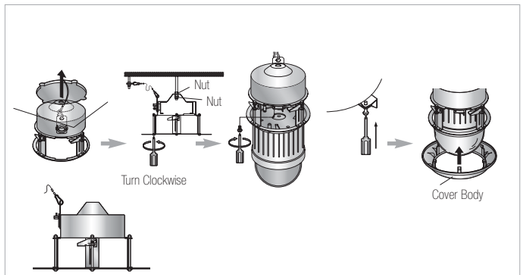
Features

- Solid structure
- Metallic material

Specifications

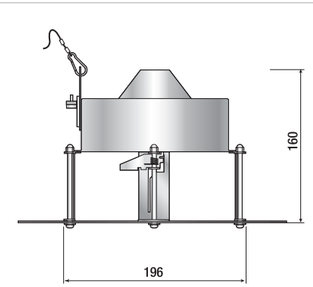
Model	SBR-100DCM
Dimensions	196x160mm
Weight	700g
Operating Temperature	-10 ~ +50℃
Accessory	Safety Wire 1EA, Safety Bracket 1EA Template A 1EA Template B 1EA, L-Shaped BNC Adaptor 1EA

Installation



* Conditions for Installation : The installation place should be able to bear up to 4 times the total product weight (about 16Kg).
This product is to be used when the thickness of the ceiling board is less than 40mm.
This product requires a minimum of 180mm space above the ceiling board.

Dimensions (unit:mm)



Ceiling Mount Bracket

SADT-100EC NEW
SADT-101EC

Features

SADT-100EC

- Ceiling mount bracket
- Plastic material
- Applicable camera : SCC-641/643, SCC-C6403/C6405/C6407, SCC-C6475

SADT-101EC

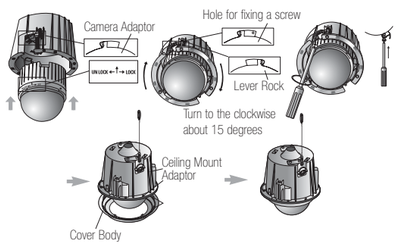
- Ceiling mount bracket
- Plastic material
- Applicable camera : SCC-C6433/C6435

Specifications

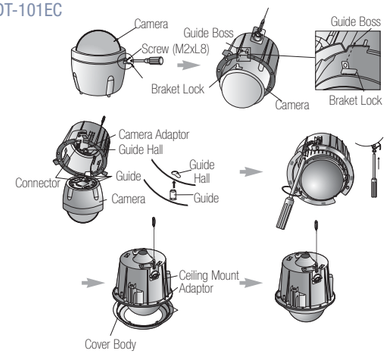
Model	SADT-100EC	SADT-101EC
Materials	Plastic	
Dimensions	235(Ø) x 210(H)mm	
Weight	765g	792g
Operating Temperature	-10~+50℃	

Installation

SADT-100EC



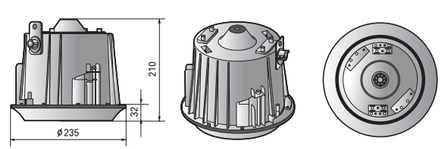
SADT-101EC



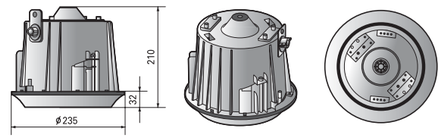
* Conditions for Installation : The installation place should be able to bear up to 4 times of the total product weight (about 16Kg).
This product is to be used when the thickness of the ceiling board is less than 40mm.
This product requires a minimum of 180mm space above the ceiling board.

Dimensions (unit:mm)

SADT-100EC



SADT-101EC



Monitor

Flat Color Monitor | **LCD Monitor**

SMC-150/152F_62
SMC-210/212F_63
SMC-213/214_64

SMT-1721/1921_65
66SMT-1722/1922_66
SMT-3211/4011_67

Monitor Comparison Chart by Model

Spec \ Model	SMC-150/152F	SMC-210/212F
Sync. type	NTSC/PAL	NTSC/PAL
Screen Size	15" CRT	21" CRT
Horizontal Resolution	400 TV Lines or more	450 TV Lines or more
Horizontal Frequency	NTSC:15.734KHz±500Hz / PAL:15.75KHz±500Hz	NTSC:15.734KHz±500Hz / PAL:15.75KHz±500Hz
Vertical Frequency	NTSC:60Hz±4Hz / PAL:50Hz±4Hz	NTSC:60Hz±4Hz / PAL:50Hz±4Hz
Video Input	2BNC, 1BNC for VCR / 4BNC, 1BNC for VCR	2BNC, 1BNC for VCR / 4BNC, 1BNC for VCR
Video Output	2BNC / 1BNC	2BNC / 1BNC
Audio Input	2RCA, 1RCA for VCR / 4RCA, 1RCA	2RCA, 1RCA for VCR / 4RCA, 1RC
Audio Output	2RCA	2RCA
Power Requirment	AC100-240V, 50/60Hz	AC100-240V, 50/60Hz
Power Consumption	62W	70W
Weight	13.0Kg	25.0Kg
Case	Metal	Metal
Dimensions	365(W) x 341(H) x 391(D)mm	490(W) x 444(H) x 482(D)mm

Spec \ Model	SMC-213	SMC-214
Sync. type	NTSC/PAL	NTSC/PAL
Screen Size	21" CRT	21" CRT
Horizontal Resolution	450 TV Lines	450 TV Lines
Horizontal Frequency	NTSC:15.734KHz±500Hz / PAL:15.75KHz±500Hz	NTSC:15.734KHz±500Hz / PAL:15.75KHz±500Hz
Vertical Frequency	NTSC:60Hz±5Hz / PAL:50Hz±5Hz	NTSC:60Hz±5Hz / PAL:50Hz±5Hz
Video Input	Composite 2Ch, BNC Type	Composite 4Ch, BNC Type
Video Output	Composite 2Ch(Loop Through), BNC Type	Composite 1Ch, BNC Type
Audio Input	Mono 2Ch, RCA Type	Mono 4Ch, RCA Type
Audio Output	Mono 2Ch(Loop Through), RCA Type	Mono 1Ch, RCA Type
Power Requirment	AC100-240V	AC100-240V
Power Consumption	74W	74W
Weight	22.8Kg	22.8Kg
Case	Metal	Metal
Dimensions	490(W) x 467(H) x 326(D)mm	490(W) x 467(H) x 326(D)mm

Monitor Comparison Chart by Model

Spec \ Model	SMT-1721	SMT-1921	NEW SMT-1722	NEW SMT-1922
Sync. type	NTSC/PAL	NTSC/PAL	NTSC/PAL	NTSC/PAL
Screen Size	17" LCD	19" LCD	17" LCD	19" LCD
Horizontal Resolution	450 TV Lines	450 TV Lines	NTSC : 600 TV Lines / PAL : 620 TV Lines	NTSC : 600 TV Lines / PAL : 620 TV Lines
Horizontal Frequency	31.5KHz~80KHz	31.5KHz~80KHz	31.5KHz~80KHz	31.5KHz~80KHz
Vertical Frequency	56Hz~75Hz	56Hz~75Hz	56Hz~75Hz	56Hz~75Hz
Video Input	Composite 2Ch (BNC), S-Video, VGA	Composite 2Ch (BNC), S-Video, VGA	Composite 2Ch (BNC), S-Video, VGA	Composite 2Ch (BNC), S-Video, VGA
Video Output	Composite 2Ch (BNC), S-Video / Loop Through	Composite 2Ch (BNC), S-Video / Loop Through	Composite 2Ch (BNC), S-Video / Loop Through	Composite 2Ch (BNC), S-Video / Loop Through
Audio Input	Stereo 2Ch (RCA)	Stereo 2Ch (RCA)	Stereo 2Ch (RCA)	Stereo 2Ch (RCA)
Audio Output	Stereo 2Ch (RCA)	Stereo 2Ch (RCA)	Stereo 2Ch (RCA)	Stereo 2Ch (RCA)
Power Requirment	AC100-240V	AC100-240V	AC100-240V	AC100-240V
Power Consumption	42W	42W	42W	42W
Weight	5.95Kg	6.85Kg	5.95Kg	6.85Kg
Case	Plastic	Plastic	Plastic	Plastic
Dimensions	371(W) x 220(H) x 368(D)mm	412(W) x 220(H) x 398(D)mm	371(W) x 220(H) x 368(D)mm	412(W) x 220(H) x 398(D)mm

Spec \ Model	NEW SMT-3211	NEW SMT-4011
Sync. type	NTSC/PAL	NTSC/PAL
Screen Size	32" LCD	40" LCD
Horizontal Resolution	500 TV Lines	500 TV Lines
Horizontal Frequency	31.5KHz~80KHz	31.5KHz~80KHz
Vertical Frequency	56Hz~75Hz	56Hz~75Hz
Video Input	Composite 1Ch, S-Video, VGA, DVI, RGB(Y/Pr/Pb)	Composite 1Ch, S-VHS, VGA, DVI, RGB(Y/Pr/Pb)
Video Output	Composite 1Ch, S-Video, RGB(Y/Pr/Pb) / Buffer	Composite 1Ch, S-VHS, RGB(Y/Pr/Pb) / Buffer
Audio Input	Stereo 1Ch (RCA)	Stereo 1Ch (RCA)
Audio Output	Stereo 1Ch (RCA) / Buffer	Stereo 1Ch (RCA) / Buffer
Power Requirment	AC 100~240V	AC 100~240V
Power Consumption	160W	210W
Weight	16.1Kg	23Kg
Case	Plastic	Plastic
Dimensions	780(W) x 530(H) x 223(D)mm	971(W) x 629.5(H) x 223(D)mm

15" Flat Color Monitor

SMC-150/152F

Features

- 15" Flat screen CRT, 0.66mm stripe pitch, 90° deflection
- More than 400 TV lines of resolution
- Metal case design that prevents electro-magnetic interference
- Looping through 2 channel input/output respectively for video/audio
- 1 Channel input each for video/voice (for VCR)
- Voice I/O (1.5W)
- Improved product stability and life through the use of solid state circuits
- High-pressure isolation function when deflection is stopped

Specifications

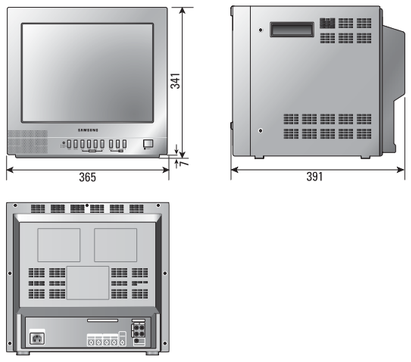
Model		SMC-150F	SMC-152F
System		NTSC/PAL	
Picture Tube		15" CRT, 0.66mm Stripe Pitch, 90° Deflection	
Horizontal Resolution		400 TV Lines or more	
Input Signal		Composite 1.0Vp-p	
Video	Input	2 BNC	4 BNC
		1 BNC for VCR	1 BNC for VCR
	Output	2 BNC	1 BNC
Audio	Input	2 RCA	4 RCA
		Line Level 500mV, 47Kohm(Hi-Impeadance)	
		1 RCA for VCR	1 RCA
	Output	2RCA	
Horizontal Frequency		NTSC:15.734KHz±500Hz / PAL:15.75KHz±500Hz	
Vertical Frequency		NTSC:60Hz±4Hz / PAL:50Hz±4Hz	
Operating Temperature		0°~+50°	
Operating Humidity		0%~90%	
Power Requirment		AC100~240V, 50/60Hz	
Power Consumption		62W	
Weight		13Kg	
Dimensions		365(W) x 341(H) x 391(D) mm	

Rear Panel

SMC-150F

SMC-152F

Dimensions (unit:mm)



21" Flat Color Monitor

SMC-210/212F

Features

- 21" Flat screen CRT, 0.71mm stripe pitch, 90° deflection
- More than 450 TV lines of resolution
- Metal case design that prevents electro-magnetic interference
- Looping through 2 channel input/output respectively for video/audio
- Vivid color realization through the incorporation of the S-VHS input terminal
- Audio I/O (1.5W)
- Improved product life and stability through the use of solid state circuits
- High-pressure isolation function when deflection is stopped

Specifications

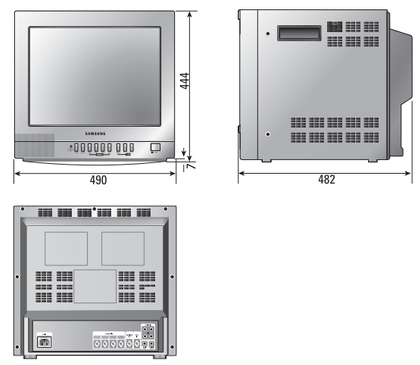
Model		SMC-210F	SMC-212F
System		NTSC/PAL	
Picture Tube		21" CRT, 0.71mm Stripe Pitch, 90° Deflection	
Horizontal Resolution		450 TV Lines or more	
Input Signal		Composite 1.0Vp-p	
Video	Input	2 BNC	4 BNC
		1 BNC for VCR	1 BNC for VCR
	Output	2 BNC	1 BNC
Audio	Input	2 RCA	4 RCA
		Line level 500mV, 47Kohm(Hi-Impeadance)	
		1 RCA for VCR	1 RCA
	Output	2RCA	
Horizontal Frequency		NTSC:15.734KHz±500Hz / PAL:15.75KHz±500Hz	
Vertical Frequency		NTSC:60Hz±4Hz / PAL:50Hz±4Hz	
Audio Output		1.5W	
Operating Temperature		0°~+50°	
Operating Humidity		0%~90%	
Power Requirment		AC100~240V, 50/60Hz	
Power Consumption		70W	
Weight		25.0Kg	
Dimensions		490(W) x 444(H) x 482(D) mm	

Rear Panel

SMC-210F

SMC-212F

Dimensions (unit:mm)



Ultra Slim 21" CRT Monitor

SMC-213/214

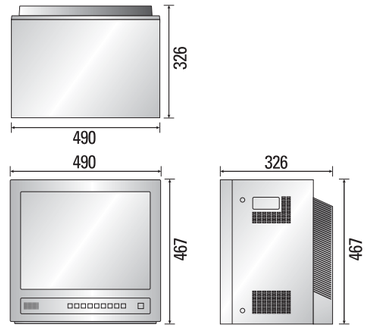
Features

- World's first ultra slim CRT monitor : Depth 326mm
- 450 TV lines
- 2D Comb filter
- Auto peaking, skin color correction
- SMT-213 : 2 In / SMT-214 : 4 In
- SMT-213 : 2 Out(loop thru) / SMT-214 : 1 Out
- Audio 1.5W

Specifications

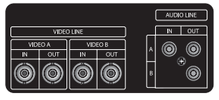
Model		SMC-213	SMC-214
Resolution		450 TV Lines	
Broadcasting System		NTSC/PAL System	
Video	Video Input	Composite 2Ch	Composite 4Ch
		BNC Type	BNC Type
	Video Output	Composite 2Ch(Loop Through)	Composite 1Ch
		BNC Type	BNC Type
Audio	Audio Input	Mono 2Ch	Mono 4Ch
		RCA Type	RCA Type
	Audio Output	Mono 2Ch(Loop Through)	Mono 1Ch
		RCA Type	RCA Type
Picture	Comb Filter	2D	
	Noise Reduction	-	DNR(Digital Noise Reduction)
	Picture Control	-	Color Tone Control
	Screen Aspect Ratio	4:3	
	Picture Function	Auto Kinetic Bias(AKB)	
Sound	Speaker Type	Direct	
	Sound Output (Total)	1.5W	
Feature	Blue Screen	-	ON/OFF
	Language	Chn, Fre, Ita, Ger, Eng, Spa	
	Switcher	-	Auto/Manual
System	Broadcasting System	NTSC 3.58	
		PAL 4.43	
Power Requirment		AC 100~240V	
Power Consumption		74W	
Weight		22.8Kg	
Dimensions		490(W) x 467(H) x 326(D)mm	

Dimensions (unit:mm)



Rear Panel

SMC-213



SMC-214

17"/19" TFT-LCD Monitor

SMT-1721/1921

Features

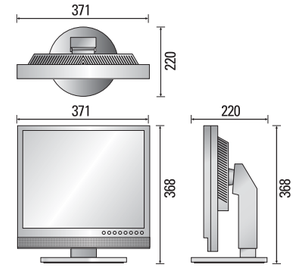
- 1280 x 1024 resolution
- 1000:1 high contrast ratio
- 300cd/m² high brightness
- 5ms response time
- BNC loop through, S-Video, VGA inputs
- Built-in speakers
- Tempered glass

Specifications

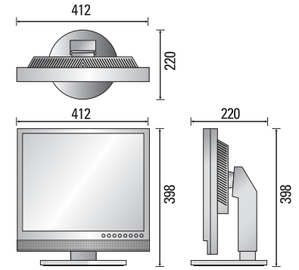
Model		SMT-1721	SMT-1921
General	Screen Size	17"	19"
	Resolution (H/V)	1280 x 1024	
	Pixel Pitch (mm)	0.264 x 0.294(HxV)	
	Brightness(cd/m²)	300	
	Contrast Ratio	1000:1	
	Response Time (ms)	5	
	Viewing Angle (H/V)	80°/80°	
	Backlight Type	4 CCFT(2 Dual)	
	Panel Lamp Life	50,000HR	
	Horizontal Frequency	31.5KHz to 80KHz	
	Vertical Frequency(Hz)	56Hz to 75Hz	
	TV Lines	450TVL	
	Sound output (Total)	2W (1W+1W)	
	Sync Format	NTSC : 3.5 / PAL : 4.43	
Feature	Screen Aspect Ratio	4:3	
	Unde Scan	Yes	
	PIP	Yes	
	PBP	No	
	DNIe	No	
	Language	Eng, Fre, Ger, Spa, Ita, Rus	
Signal Input	Video Input	Composite 2Ch (BNC), VGA, S-Video	
	Video Output	Composite 2Ch (BNC), S-Video / Loop Through	
	Audio Input	Stereo 2Ch (RCA)	
	Audio Output	Stereo 2Ch (RCA) / Loop Through	
Input Voltage		AC100-240V, 50/60Hz	
Power Consumption		42W	
Weight		5.95Kg	6.85Kg
Dimensions		371(W) x 368(H) x 220(D)mm	412(W) x 398(H) x 220(D)mm

Dimensions (unit:mm)

SMT-1721



SMT-1921



Side Panel

SMT-1721

SMT-1921

17"/19" TFT-LCD Monitor

SMT-1722/1922 NEW

Features

- Ultra high resolution 620 TV lines for the PAL version*
- Superior image quality DNIe
- High contrast ratio 1000:1
- Fast response time 5ms
- Durable tempered glass screen
- Support up to 1280 x 1024 resolution
- Height adjustable and swiveling stand for desktop
- Built-in speakers
- Support vesa(R)-compliant mounting solution

* 600 TV Lines for the NTSC Version

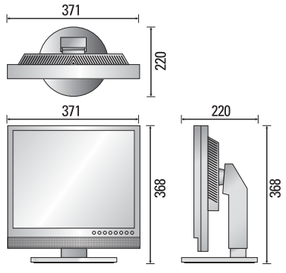
Specifications

Model		SMT-1722	SMT-1922
General	Screen Size	17"	19"
	Resolution (H/V)	1280 x 1024	
	Pixel Pitch (mm)	0.264 x 0.294(HxV)	
	Brightness(cd/m²)	300	
	Contrast Ratio	1000:1	
	Response Time (ms)	5	
	Viewing Angle (H/V)	80°/80°	
	Backlight Type	4 CCFT(2 Dual)	
	Panel Lamp Life	50,000HR	
	Horizontal Frequency	31.5KHz to 80KHz	
	Vertical Frequency	56Hz to 75Hz	
	TV Lines	620TVL*	
	Sound output (Total)	2W (1W+1W)	
	Sync Format	NTSC : 3.5 / PAL : 4.43	
Feature	Screen Aspect Ratio	4:3 / 16:9	
	Unde Scan	Yes	
	PIP	Yes	
	PBP	Yes	
	DNIe	Yes	
	Language	Eng, Fre, Ger, Spa, Ita, Rus, Swe, Por, Kor, Chn, Jpn	
Signal Input	Video Input	Composite 2Ch (BNC), S-Video, VGA	
	Video Output	Composite 2Ch (BNC), S-Video / Loop Through	
	Audio Input	Stereo 2Ch (RCA)	
	Audio Output	Stereo 2Ch (RCA) / Loop Through	
Input Voltage		AC100-240V, 50/60Hz	
Power Consumption		42W	
Weight		5.95Kg	6.85Kg
Dimensions		371(W) x 368(H) x 220(D)mm	412(W) x 398(H) x 220(D)mm

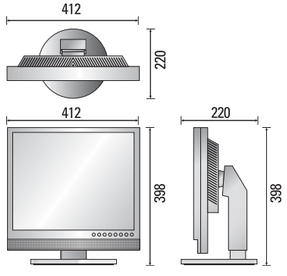
* 600 TV Lines for the NTSC Version

Dimensions (unit:mm)

SMT-1722



SMT-1922



Side Panel

SMT-1722

SMT-1922

Professional Large LCD Monitor

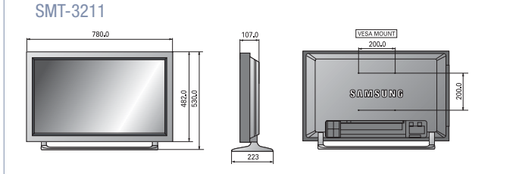
SMT-3211/4011 NEW

Features

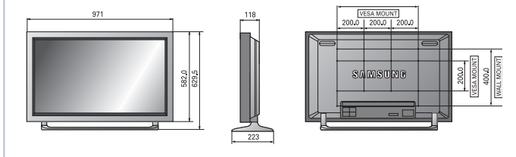
- Extended video wall format
- Picture in picture(PIP) and picture by picture(PBP)
- Superior image quality DNIe
- High contrast ratio : 1000:1(32")/1200:1(40")
- Fast response time 8ms
- Support up to 1366x768 resolution
- Wide viewing angle
- Multiple video input

Dimensions (unit:mm)

SMT-3211



SMT-4011



Specifications

Model		SMT-3211	SMT-4011
General	Screen Size	32"	40"
	Resolution (H/V)	1366 x 768	
	Pixel Pitch (mm)	0.511 x 0.511(HxV)	0.684 x 0.684(HxV)
	Brightness(cd/m²)	600	450
	Contrast Ratio	2000:1	
	Response Time (ms)	8 (G-to-G)	
	Viewing Angle (H/V)	80°	
	Backlight Type	12 CCFT	
	Panel Lamp Life	60,000HR	
	Horizontal Frequency	31.5KHz to 80KHz	
	Vertical Frequency	56Hz to 75Hz	
	TV Lines	500TVL	
	Sound output (Total)	20W (10W+10W)	
	Sync Format	NTSC : 3.5 / PAL : 4.43	
Feature	Screen Aspect Ratio	16:9 / 4:3	
	Unde Scan	No	
	PIP	Yes	
	PBP	Yes	
	DNIe	Yes	
	Language	Kor, Jpn, Chn, Rus, Fre, Ita, Swe, Ger, Eng, Spa, Por	
Signal Input	Video Input	Composite 1Ch, S-Video, VGA, DVI, RGB (Y/Pr/Pb)	
	Video Output	Composite 1Ch, S-VHS, RGB (Y/Pr/Pb) / Buffer	
	Audio Input	Stereo 1Ch (RCA)	
	Audio Output	Stereo 1Ch (RCA) / Buffer	
Input Voltage		100-240VAC, 50/60Hz	
Power Consumption		160W	210W
Weight		16.1Kg	23.5Kg
Dimensions		780(W) x 530(H) x 223(D)mm	971(W) x 629.5(H) x 223(D)mm

DVR

Standalone DVR

SHR-2040/2042_74
SHR-2080/2082_75
SHR-2160/2162_76
SHR-4081/4160_79
SHR-5040/5042_82
SHR-5080/5082_83
SHR-5160/5162_84
SHR-7080/7082_85
SHR-7160/7162_86
SHR-8080/8082_87
SHR-8160/8162_88

PC Based DVR

SPR-9716/9816_89

DVR Comparison Chart by Model

Standalone DVR / Model / Spec	SHR-2040	SHR-2042	SHR-2080	SHR-2082	SHR-2160	SHR-2162
Video Input	4ch Composite	4ch Composite	8ch Composite	8ch Composite	16ch Composite	16ch Composite
Video Output	2ch Composite 1ch S-Video 1ch VGA	2ch Composite 1ch S-Video 1ch VGA	2ch Composite 1ch S-Video 1ch VGA	2ch Composite 1ch S-Video 1ch VGA	2ch Composite 1ch S-Video 1ch VGA	2ch Composite 1ch S-Video 1ch VGA
Audio Input	4ch	4ch	4ch	4ch	4ch	4ch
Audio Output	1ch	1ch	1ch	1ch	1ch	1ch
Video Compression Method	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4
Audio Compression Method	ADPCM	ADPCM	ADPCM	ADPCM	ADPCM	ADPCM
Recording Speed (NTSC/PAL)	120/100 ips	120/100 ips	120/100 ips	120/100 ips	120/100 ips	120/100 ips
Display Speed (NTSC/PAL)	120/100 ips	120/100 ips	240/200 ips	240/200 ips	480/400 ips	480/400 ips
Alarm Input	4ch	4ch	8ch	8ch	16ch	16ch
Alarm Output	2ch	2ch	4ch	4ch	4ch	4ch
Motion Detection	o	o	o	o	o	o
Watermark	o	o	o	o	o	o
Multiplex Function	Triplex	Triplex	Triplex	Triplex	Triplex	Triplex
HDD (Default)	160GB	160GB	160GB	160GB	160GB	160GB
HDD (Max.Expansion)	250GB x 2	250GB x 3	250GB x 4	250GB x 3	250GB x 4	250GB x 3
Back UP	USB 2.0	USB 2.0, CD-RW	USB 2.0	USB 2.0, CD-RW	USB 2.0	USB 2.0, CD-RW
Jog & Shuttle	-	-	-	-	-	-
Network	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)
Remote Controller	-	-	o	o	o	o

Standalone DVR / Model / Spec	SHR-4081	SHR-4160
Video Input	8ch Composite	16ch Composite
Video Output	2ch Composite 1ch S-Video 1ch VGA	2ch Composite 1ch S-Video 1ch VGA
Audio Input	8ch	8ch
Audio Output	1ch	1ch
Video Compression Method	MPEG4	MPEG4
Audio Compression Method	G.726	G.726
Recording Speed (NTSC/PAL)	240/200 ips	Max. 360 ips
Display Speed (NTSC/PAL)	240/200 ips	480/400 ips
Alarm Input	8ch	16ch
Alarm Output	4ch	4ch
Motion Detection	o	o
Watermark	o	o
Multiplex Function	Triplex	Triplex
HDD (Default)	160GB	160GB
HDD (Max.Expansion)	250GB x 4	250GB x 4
Back UP	IEEE1394, USB 2.0	IEEE1394, USB 2.0
Jog & Shuttle	o	o
Network	LAN(10/100 Base-T)	LAN(10/100 Base-T)
Remote Controller	-	-

DVR Comparison Chart by Model

Standalone DVR (Spec \ Model)	SHR-5040	SHR-5042	SHR-5080	SHR-5082	SHR-5160	SHR-5162
Video Input	4ch Composite	4ch Composite	8ch Composite	8ch Composite	16ch Composite	16ch Composite
Video Output	2ch Composite 1ch S-Video 1ch VGA 4ch Loop Through	2ch Composite 1ch S-Video 1ch VGA 4ch Loop Through	2ch Composite 1ch S-Video 1ch VGA 8ch Loop Through	2ch Composite 1ch S-Video 1ch VGA 8ch Loop Through	2ch Composite 1ch S-Video 1ch VGA 16ch Loop Through	2ch Composite 1ch S-Video 1ch VGA 16ch Loop Through
Audio Input	4ch	4ch	4ch	4ch	4ch	4ch
Audio Output	1ch	1ch	1ch	1ch	1ch	1ch
Live Display Resolution	D1	D1	D1	D1	D1	D1
Video Compression Method	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4	MPEG4
Audio Compression Method	ADPCM	ADPCM	ADPCM	ADPCM	ADPCM	ADPCM
Recording Speed (NTSC/PAL)	120/100 ips	120/100 ips	120/100 ips	120/100 ips	120/100 ips	120/100 ips
Alarm Input	4ch	4ch	8ch	8ch	16ch	16ch
Alarm Output	2ch	2ch	4ch	4ch	4ch	4ch
HDD (Default)	160GB	250GB	250GB	250GB	250GB	250GB
HDD (Max.Expansion)	250GB x 2	250GB	250GB x 4	250GB x 3	250GB x 4	250GB x 3
Back UP	USB 2.0	USB 2.0, CD-RW	USB 2.0	USB 2.0, DVD-RW	USB 2.0	USB 2.0, DVD-RW
Network	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)	LAN(10/100 Base-T)

Standalone DVR (Spec \ Model)	NEW SHR-7080	NEW SHR-7082	NEW SHR-7160	NEW SHR-7162
Video Input	8ch Composite	8ch Composite	16ch Composite	16ch Composite
Video Output	2ch Composite HDMI VGA 8ch Loop Through	2ch Composite HDMI VGA 8ch Loop Through	2ch Composite HDMI VGA 16ch Loop Through	2ch Composite HDMI VGA 16ch Loop Through
Audio Input	8ch	8ch	16ch	16ch
Audio Output	1ch	1ch	1ch	1ch
Live Display Resolution	D1	D1	D1	D1
Video Compression Method	MPEG-4	MPEG-4	MPEG-4	MPEG-4
Audio Compression Method	ADPCM	ADPCM	ADPCM	ADPCM
Recording Speed (NTSC/PAL)	CIF 240/200 ips	CIF 240/200 ips	CIF 480/400 ips	CIF 480/400 ips
Alarm Input	8ch	8ch	16ch	16ch
Alarm Output	4ch	4ch	4ch	4ch
HDD (Default)	500GB	500GB	500GB	500GB
HDD (Max.Expansion)	500GB x 6	500GB x 5	500GB x 6	500GB x 5
Back UP	USB 2.0, SATA	USB 2.0, SATA, DVD-RW	USB 2.0, SATA	USB 2.0, SATA, DVD-RW
Network	LAN(10/100/1000 Base-T)	LAN(10/100/1000 Base-T)	LAN(10/100/1000 Base-T)	LAN(10/100/1000 Base-T)

DVR Comparison Chart by Model

Standalone DVR (Spec \ Model)	NEW SHR-8080	NEW SHR-8082	NEW SHR-8160	NEW SHR-8162
Video Input	8ch Composite	8ch Composite	16ch Composite	16ch Composite
Video Output	3ch Composite HDMI VGA 8ch Loop Through	3ch Composite HDMI VGA 8ch Loop Through	5ch Composite HDMI VGA 16ch Loop Through	5ch Composite HDMI VGA 16ch Loop Through
Audio Input	8ch	8ch	16ch	16ch
Audio Output	1ch	1ch	1ch	1ch
Live Display Resolution	D1	D1	D1	D1
Video Compression Method	MPEG-4	MPEG-4	MPEG-4	MPEG-4
Audio Compression Method	ADPCM	ADPCM	ADPCM	ADPCM
Recording Speed (NTSC/PAL)	D1 240/200 ips	D1 240/200 ips	D1 480/400 ips	D1 480/400 ips
Alarm Input	8ch	8ch	16ch	16ch
Alarm Output	4ch	4ch	4ch	4ch
HDD (Default)	500GB	500GB	500GB	500GB
HDD (Max.Expansion)	500GB x 6	500GB x 5	500GB x 6	500GB x 5
Back UP	USB 2.0, SATA	USB 2.0, SATA, DVD-RW	USB 2.0, SATA	USB 2.0, SATA, DVD-RW
Network	10/100/1000 Base-T Ethernet	10/100/1000 Base-T Ethernet	10/100/1000 Base-T Ethernet	10/100/1000 Base-T Ethernet

PC Based DVR (Spec \ Model)	NEW SPR-9716	NEW SPR-9816
CPU	Intel Pentium Dual-Core E2140	Intel Pentium Dual-Core E2140
Main Memory	DDR5300 512MB	DDR5300 512MB
OS	Windows XP Pro Embedded	Windows XP Pro Embedded
VGA Card	ATI X300SE	ATI X300SE
Video Input	16Ch Composite Video	16Ch Composite Video
Video Output	1 VGA (1024 x 768) , 1CH SPOT (2) , Multi CH SPOT	1 VGA (1024 x 768) , 1CH SPOT (2) , Multi CH SPOT
Audio Input	16 Port Input	16 Port Input
Audio Output	1Port Out	1Port Out
Video Compression	MPEG-4	MPEG-4
Compression Rate	352 X 240 = Average 3Kb/F, 704 X 480 = Average 8Kb/F	352 X 240 = Average 3Kb/F, 704 X 480 = Average 8Kb/F
Recording Speed	120/100 ips (CIF Standard)	480/400 ips (CIF Standard)
Display Speed	120/100 ips	480/400 ips
Alarm Input	16ch	16ch
Alarm Output	4ch	4ch
Motion Detection	o	o
Water Mark	o	o
HDD (Default)	250GB	250GB
HDD (Max.Expansion)	3 (Total 4EA)	3 (Total 4EA)
Back Up	Automatic/Manual Backup Function through HDD, DVD and Network Drive	Automatic/Manual Backup Function through HDD, DVD and Network Drive
Network	LAN(10/100 Base-T)	LAN(10/100 Base-T)

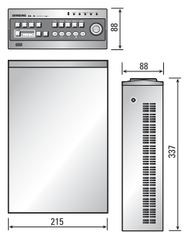
SHR-2000 Series

Features

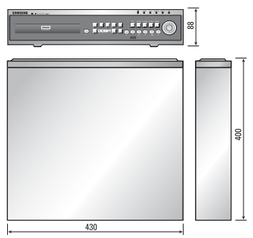
- 4 Channel 120 ips real-time video recording and 4 Channel audio recording (SHR-204X)
- 8/16 Channel 120 ips real-time video recording and 4-channel audio recording (SHR-208X/216X)
- Various backup through USB: USB memory, portable HDD, portable CD-RW and DVD-RW
- Spot output monitoring (full-screen monitoring function for a specific channel, auto sequence)
- Easy search, through access to a range of search methods : Event, date/time, go to first/last, backup search and calendar functions
- Motion detection (zone setting)
- Watermark to prevent video alteration
- Alarm message sent to registered users (CallBack)
- Remote monitoring and control through the network : ethernet, cable network and XDSL support
- Remote control through the IR remote controller (SHR-208X/216X)
- Compact size overcomes installation space limitations (SHR-2040)
- Possible to expand up to 1TB (250GBX4) (SHR-2080/2160)
- Supporting efficient backup by incorporating a built-in DVD-RW unit (SHR-2XX2)

Dimensions (unit:mm)

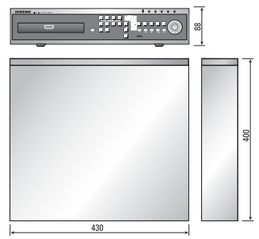
SHR-2040



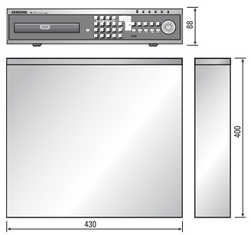
SHR-2042



SHR-2080/2082



SHR-2160/2162



Front / Rear Panel

SHR-2040

SHR-2042

SHR-2080/2082

SHR-2160/2162

* SHR-2042/2162 is installed with a CD-RW unit.

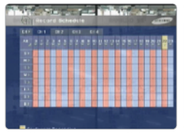
SHR-2000 Series UI

Image Quality and Recording Setup

SHR-2000 series allows the video quality and recording speed to be set independently for each channel. The product supports scheduled recording, event recording by alarm and motion detection, and general recording by user selection.

<Image Quality Setup>

<Image Size Setup>


<Scheduled Recording Setup>

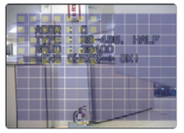
<Frame Rule Setup>

Motion Detection

SHR-2000 series can detect image movement in each channel, and can record moving images.
Motion sensitivity can be set in a range from low to high. Greater sensitivity results from a higher setting.

<Motion Sensitivity Setup>

<Motion-Detection Area Setup>


<Motion-Detection Area Setup>

Remote Monitoring and Backup

The video stream of the camera connected to the SHR-2000 series can be seen through the Smart Viewer, and the video saved to the set can be searched and played. The user can also save (backup) a desired video to PC.

<Network Setup>

<Remote Monitoring Program - Live Screen >

<Remote Monitoring Program - Search Screen >

<Remote Monitoring Program - Backup Screen>

Various Search Types

SHR-2000 series supports various search types, including calendar search, event search, date/time search, go-to-beginning/end and backup search. Data can be saved to CD-RW or a USB storage device by using the backup menu.

<Calendar Search>

<Event Search>

<Date/Time Search>

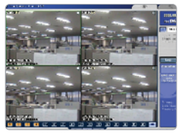
<Data Backup>

Remote Camera Control (PTZ camera control)

The basic functions of PTZ can be executed within the set without a separate manipulation device after connecting to the PTZ camera; also, the PTX functions of the camera can be remotely controlled through the Smart Viewer.

<PTZ Camera Setup>

<PTZ Camera Control from DVR>


<PTX Camera Control from the Remote Monitoring Program>

Setup and Upgrade

SHR-2000 series not only allows the user to set various functions through the menus, but also allows remote function setting through the Smart Viewer.
When it is necessary to upgrade the software of the SHR-2000 series set, upgrading can be done directly from the set using USB memory, or remotely through the Smart Viewer.

<Setup Screen from the DVR Set>

<DVR Set Setup from the Remote Monitoring Camera>

<Software Upgrade from the DVR Set>

<DVR Set Upgrade from the Remote Monitoring Camera>

Recording Speed/Recording Speed in Varying Resolutions (160GB standard)

SHR-204X

	Half D1				CIF			
	Very High	High	Standard	Low	Very High	High	Standard	Low
30.0 ips	117 Hr	152 Hr	198 Hr	308 Hr	198 Hr	264 Hr	336 Hr	528 Hr
15.0 ips	155 Hr	202 Hr	264 Hr	411 Hr	264 Hr	352 Hr	443 Hr	692 Hr
10.0 ips	199 Hr	258 Hr	336 Hr	519 Hr	336 Hr	449 Hr	563 Hr	873 Hr
7.5 ips	231 Hr	300 Hr	389 Hr	599 Hr	389 Hr	515 Hr	651 Hr	1,004 Hr
5.0 ips	276 Hr	358 Hr	465 Hr	714 Hr	465 Hr	615 Hr	772 Hr	1,181 Hr
3.0 ips	483 Hr	622 Hr	801 Hr	1,207 Hr	801 Hr	1,048 Hr	1,301 Hr	1,934 Hr
1.0 ips	817 Hr	1,041 Hr	1,322 Hr	1,934 Hr	1,322 Hr	1,698 Hr	2,078 Hr	2,963 Hr

SHR-208X / SHR-216X

	Half D1				CIF			
	Very High	High	Standard	Low	Very High	High	Standard	Low
30.0 ips	-	-	-	-	198 Hr	264 Hr	336 Hr	528 Hr
15.0 ips	186 Hr	241 Hr	317 Hr	493 Hr	317 Hr	418 Hr	528 Hr	819 Hr
7.5 ips	306 Hr	396 Hr	515 Hr	790 Hr	515 Hr	681 Hr	850 Hr	1,296 Hr
3.7 ips	453 Hr	583 Hr	750 Hr	1,131 Hr	750 Hr	982 Hr	1,225 Hr	1,828 Hr
1.8 ips	706 Hr	902 Hr	1,153 Hr	1,706 Hr	1,153 Hr	1,491 Hr	1,828 Hr	2,641 Hr
0.9 ips	867 Hr	1,103 Hr	1,398 Hr	2,037 Hr	1,398 Hr	1,791 Hr	2,187 Hr	3,101 Hr

4Ch Real-time Standalone DVR

SHR-2040/2042

Specifications

Model			SHR-2040	SHR-2042
Video	Input	Composite	4Ch, BNC	
		Loop Through	4Ch	
	Output	Composite	2Ch, BNC(Normal,Spot)	
		S-Video	1Ch	
		VGA	1Ch	
Audio	Input		Mono 4Ch, RCA	
	Output		Mono 1Ch, RCA	
Recording	Compression Method	Video/Audio	MPEG 4 / ADPCM	
	Video Compression Rate (Kbyte/Image)	Very High	NTSC : 6.7(CIF), 11.5(Half D1), 21.0(D1) / PAL: 8.1(CIF), 13.8(Half D1), 25.1(D1)	
		High	NTSC : 5.0(CIF), 8.8(Half D1), 15.9(D1) / PAL : 6.1(CIF), 10.5(Half D1), 19.0(D1)	
		Standard	NTSC : 3.9(CIF), 6.7(Half D1), 12.1(D1) / PAL : 4.8(CIF), 8.1(Half D1), 14.5(D1)	
		Low	NTSC : 2.4(CIF), 4.3(Half D1), 7.9(D1) / PAL : 2.9(CIF), 5.2(Half D1), 9.5(D1)	
	Resolution		CIF, Half D1, Full D1(1CH mode)	
	Speed (NTSC/PAL)		CIF:120/100ips, Half D1:60/50ips, D1:30/25ips	
	Method		Time Lapse, Event (Alarm/Motion/Video Loss), Schedule(Time, Date, Camera)	
Live/Playback	Display Resolution		D1	
	Search Mode		Event Search (Alarm/Motion/Video Loss), Date/Time Search, and Calendar Search, Go to First/Last Search and Backup Search	
	PB Mode		Play, Stop, Pause, FF/FR(Fast Forward/Reverse:2, 4, 8, 16, 32, 64x), Frame Advance(Forward/Reverse)	
	Live Screen		Single, Quad, PIP, Sequence, Freeze, 2x Zoom	
	Display Speed (Images/sec)		NTSC : 120ips / PAL : 100ips	
	Auto Screen Switchover Time		0, 3, 5, 10, 20, 30sec	
Event	Alert Function		Remote S/W Callback	
	Alarm Input		4Ch, 1 Alarm Reset	
	Alarm Output		2Ch Relay Out	
	Alarm Output Duration		Off, 3, 5, 10, 20, 30sec	
	Motion Detection		Area Setting(Low, Standard, High)	
	Pre Alarm Setup Time		Off, 5, 10, 20, 30sec	
	Post Alarm Setup Time		Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	
Water Mark			Yes	
Storage	Default		160GB	
	Expansion		250GB x 2	250GB x 3
	DVD-RW		None	Yes (for Data Backup)
Back Up			USB 2.0(Front 1 Port, Rear 1 Port)	USB 2.0 (Front 1 Port, Rear 1 Port), DVD-RW
External Port	RS232C		Console	
	RS485		PTZ Device, System Keyboard	
Network			Ethernet(10/100 Base-T), Cable Network, XDSL	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			25% ~ 80%	
Power Requirment			DC12V, 4.5A(External Adaptor)	AC100 ~ 240V, 50/60Hz
Power Consumption			54W	
Weight			4.5Kg	6.5Kg
Dimensions			215(W) x 88(H) x 337(D)mm	430(W) x 88(H) x 400(D)mm

8Ch Standalone DVR

SHR-2080/2082

Specifications

Model			SHR-2080	SHR-2082
Video	Input	Composite	8Ch, BNC	
		Loop Through	8Ch	
	Output	Composite	2Ch, BNC(Normal, Spot)	
		S-Video	1Ch	
		VGA	1Ch	
Audio	Input		4Ch Mono, RCA	
	Output		1Ch Mono, RCA	
Recording	Compression Method	Video/Audio	MPEG 4 / ADPCM	
	Video Compression Rate (Kbyte/Image)	Very High	NTSC : 6.7(CIF), 11.5(Half D1) / PAL : 8.1(CIF), 13.8(Half D1)	
		High	NTSC : 5.0(CIF), 8.8(Half D1) / PAL : 6.1(CIF), 10.5(Half D1)	
		Standard	NTSC : 3.9(CIF), 6.7(Half D1) / PAL : 4.8(CIF), 8.1(Half D1)	
		Low	NTSC : 2.4(CIF), 4.3(Half D1) / PAL : 2.9(CIF), 5.2(Half D1)	
	Resolution		CIF, Half D1	
	Speed(NTSC/PAL)		CIF:120/100ips, Half D1:60/50ips	
	Method		Time Lapse, Event(Alarm/Motion/Video Loss), Schedule(Time, Date, Camera), Normal	
Live/Playback	Display Resolution		D1	
	Search Mode		Event Search (Alarm/Motion/Video Loss), Date/Time Search, and Calendar Search, Go to First/Last Search and Backup Search	
	PB Mode		Play, Stop, Pause, FF(Fast Forward), FB(Fast Reverse)	
	Live Screen Mode		Single, 4, 6, 7, 9, 10, 16, Sequence, Freeze, 2x Zoom	
	Display Speed (Images/sec)		NTSC:240ips / PAL:200ips	
	Auto Screen Switchover Time		0, 3, 5, 10, 20, 30sec	
Event	Alert Function		Remote S/W Callback	
	Alarm Input		8Ch, 1 Alarm Reset	
	Alarm Output		4Ch Relay Out	
	Alarm Output Duration		Off, 3, 5, 10, 20, 30sec	
	Motion Detection		Area Setting (Low, Standard, High)	
	Pre Alarm Setup Time		Off, 5, 10, 20, 30sec	
	Post Alarm Setup Time		Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	
Watermark			Yes	
Storage	Default		160GB	
	Expansion		250GB x 4	250GB x 3
	DVD-RW		No	Yes(for Back Up)
Back Up			USB 2.0 (Front 1 Port, Rear 1 Port)	USB 2.0 (Front 1 Port, Rear 1 Port), DVD-RW
External Port	RS232C		Console	
	RS485		PTZ Device, System Keyboard	
Network			Ethernet(10/100 Base-T), Cable Network, XDSL	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			25% ~ 80% RH	
Power Requirment			AC100 ~ 240V, 50/60Hz	
Power Consumption			56W	60W
Weight			6.5Kg	
Dimensions			430(W) x 88(H) x 400(D)mm	

16Ch Standalone DVR

SHR-2160/2162

Specifications

Model			SHR-2160	SHR-2162
Video	Input	Composite	16Ch, BNC	
		Loop Through	16Ch	
	Output	Composite	2Ch, BNC(Normal, Spot)	
		S-Video	1Ch	
		VGA	1Ch	
Audio	Input		4Ch Mono, RCA	
	Output		1Ch Mono, RCA	
Recording	Compression Method	Video/Audio	MPEG 4 / ADPCM	
	Video Compression Rate (Kbyte/Image)	Very High	NTSC : 6.7(CIF), 11.5(Half D1) / PAL : 8.1(CIF), 13.8(Half D1)	
		High	NTSC : 5.0(CIF), 8.8(Half D1) / PAL : 6.1(CIF), 10.5(Half D1)	
		Standard	NTSC : 3.9(CIF), 6.7(Half D1) / PAL : 4.8(CIF), 8.1(Half D1)	
		Low	NTSC : 2.4(CIF), 4.3(Half D1) / PAL : 2.9(CIF), 5.2(Half D1)	
	Resolution		CIF, Half D1	
	Speed(NTSC/PAL)		CIF:120/100ips, Half D1:60/50ips	
	Method		Time Lapse, Event(Alarm/Motion/Video Loss), Schedule(Time, Date, Camera), Normal	
Live/Playback	Display Resolution		D1	
	Search Mode		Event Search (Alarm/Motion/Video Loss), Date/Time Search, and Calendar Search, Go to First/Last Search and Backup Search	
	PB Mode		Play, Stop, Pause, FF(Fast Forward), FB(Fast Reverse)	
	Live Screen Mode		Single, 4, 6, 7, 9, 10, 16, Sequence, Freeze, 2x Zoom	
	Display Speed (Images/sec)		NTSC:480ips / PAL:400ips	
	Auto Screen Switchover Time		0, 3, 5, 10, 20, 30sec	
Event	Alert Function		Remote S/W Callback	
	Alarm Input		16Ch, 1 Alarm Reset	
	Alarm Output		4Ch Relay Out	
	Alarm Output Duration		Off, 3, 5, 10, 20, 30sec	
	Motion Detection		Area Setting (Low, Standard, High)	
	Pre Alarm Setup Time		Off, 5, 10, 20, 30sec	
	Post Alarm Setup Time		Off, 5, 10, 20, 30sec, 1, 3, 5, 10, 20min	
Watermark			Yes	
Storage	Default		160GB	
	Expansion		250GB x 4	250GB x 3
	DVD-RW		No	Yes(for Back Up)
Back Up			USB 2.0 (Front 1 Port, Rear 1 Port)	USB 2.0 (Front 1 Port, Rear 1 Port), DVD-RW
External Port	RS232C		Console	
	RS485		PTZ Device, System Keyboard	
Network			Ethernet(10/100 Base-T), Cable Network, XDSL	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			25% ~ 80% RH	
Power Requirment			AC100 ~ 240V, 50/60Hz	
Power Consumption			56W	60W
Weight			6.5Kg	
Dimensions			430(W) x 88(H) x 400(D)mm	

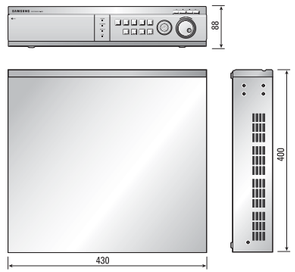
SHR-4000 Series

Features

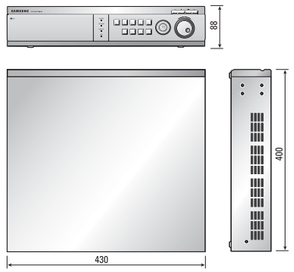
- 8Channel 240/200 ips (SHR-4081), 16ch 360/300 ips (SHR-4160) video recording and 8 channel audio recording
- Spot output monitoring (full-screen monitoring function of a specific channel)
- Monitoring through general monitor, or PC monitor
- Convenient search through a variety of search methods, and by jog & shuttle
  : Event, date/time, go to first/last, backup search functions
- Build an optimal monitoring environment by selecting a variety of record resolutions : CIF, Half D1, D1
- Motion detection (zone setting)
- Watermark to prevent video alteration
- Remote monitoring and remote control through the network
  : Ethernet, Cable Network and XDSL support
- Expandable up to 1TB (250GBx4)
- Portable CD and DVD R/W can be attached (using USB)
- A variety of backup interfaces
  : USB 2.0/IEEE1394(SHR-4081/4160)

Dimensions (unit:mm)

SHR-4081



SHR-4160



Front / Rear Panel

SHR-4081

SHR-4160

SHR-4000 Series UI

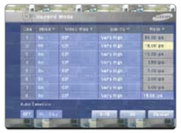
Image Quality and Recording Setup

SHR-4081/4160 allows video quality, image size and recording speed to be set independently for each channel, and can record 240/360 (SHR-4081/4160) images per second.
This product supports scheduled recording, event recording by alarm and motion detection, and general recording by user selection.

<Image Quality Setup>

<Image Size Setup>

<Scheduled Recording Setup>


<Frame Rule Setup>

Motion Detection

SHR-4081/4160 can detect motion in each channel, and can be triggered to record when motion is detected. Motion-sensitivity can be set from low to high, having greater sensitivity when it is set higher. Images prior and after the detected motion can also be recorded, through the Pre-Alarm/Post-Alarm.

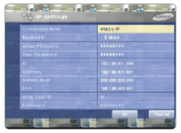
<Motion Sensitivity Setup>

<Motion-Detection Area Setup>

<Motion-Detection Area Setup>

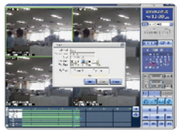
Remote Monitoring and Backup

Video from a camera connected to the SHR-4081/4160 can be seen through the Smart Viewer, and the video saved to the set can be searched and played. The user can save (backup) a desired video to a PC.


<Network Setup>

<Remote Monitoring Program - Live Screen >

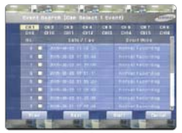
<Remote Monitoring Program - Search Screen >


<Remote Monitoring Program - Backup Screen>

Various Search Types

SHR-4081/4160 supports a range of search functions such as calendar search, event search, date/time search, go-to-beginning/end and backup search. By using the backup menu, a certain section of data can be saved (backed up) to a USB storage device. The product supports a range of storage devices, including USB memory, CD-RW drives (USB interface), HDD using IEEE1394, and others.

<Calendar Search>


<Event Search>

<Date/Time Search>

<Data Backup>

Remote Camera Control (PTZ camera control)

PTZ can be executed within the set without a separate manipulation device after connecting to the PTZ camera; also, the PTX functions of the camera can be controlled remotely through the Smart Viewer.

<PTZ Camera Setup>

<PTZ Camera Control from DVR>

<PTX Camera Control from the Remote Monitoring Program>

Setup and Upgrade

SHR-4081/4160 not only allows the setting of various functions through menus, but also allows remote function setting through the Smart Viewer.
When it is necessary to upgrade the software of the SHR-4081/4160 set, upgrading can be done directly from the set using USB memory, or remotely through the Smart Viewer.

<Setup Screen from the DVR Set>

<DVR Set Setup from the Remote Monitoring Camera>

<Software Upgrade from the DVR Set>

<DVR Set Upgrade from the Remote Monitoring Camera>

Recording Speed/Recording Speed in Varying Resolutions (160GB standard)

SHR-4081 / SHR-4160

	D1				Half D1				CIF			
	Very High	High	Standard	Low	Very High	High	Standard	Low	Very High	High	Standard	Low
30.0 ips	-	-	-	-	-	-	-	-	234 Hr	290 Hr	345 Hr	427 Hr
15.0 ips	-	-	-	-	345 Hr	403 Hr	483 Hr	630 Hr	403 Hr	468 Hr	580 Hr	804 Hr
10.0 ips	-	-	-	-	483 Hr	558 Hr	659 Hr	904 Hr	580 Hr	659 Hr	804 Hr	1,204 Hr
7.5 ips	345 Hr	403 Hr	483 Hr	604 Hr	621 Hr	701 Hr	835 Hr	1,238 Hr	835 Hr	943 Hr	1,141 Hr	1,661 Hr
5.0 ips	403 Hr	483 Hr	604 Hr	724 Hr	804 Hr	904 Hr	1,071 Hr	1,558 Hr	1,071 Hr	1,203 Hr	1,442 Hr	2,052 Hr
3.0 ips	659 Hr	943 Hr	1,140 Hr	1,442 Hr	1,369 Hr	1,522 Hr	1,769 Hr	2,442 Hr	1,769 Hr	1,960 Hr	2,288 Hr	3,057 Hr
1.0 ips	558 Hr	804 Hr	977 Hr	1,245 Hr	1,713 Hr	1,892 Hr	2,174 Hr	2,914 Hr	2,174 Hr	2,388 Hr	2,749 Hr	3,554 Hr

8/16Ch Real-time Standalone DVR

SHR-4081/4160

Specifications

Model			SHR-4081	SHR-4160
Video	Input	Composite	8Ch, BNC	16Ch, BNC
		Loop Through	8Ch	16Ch
	Output	Composite	2Ch, BNC(Normal, Spot)	
		S-Video	1Ch	
		VGA	1Ch	
Audio	Input		Mono 8Ch, RCA	
	Output		Mono 1Ch, RCA	
Recording	Compression Method	Video/Audio	MPEG 4 / G.726	
	Video Compression Rate (Kbyte/Image)	Very High	NTSC : 6.0(CIF), 8.3(Half D1), 15.9(D1) / PAL : 7.3(CIF), 10.3(Half D1), 19.5(D1)	
		High	NTSC : 4.8(CIF), 7.2(Half D1), 13.5(D1) / PAL : 5.9(CIF), 8.8(Half D1), 16.6(D1)	
		Standard	NTSC : 4.0(CIF), 6.0(Half D1), 11.1(D1) / PAL : 4.9(CIF), 7.3(Half D1), 13.7(D1)	
		Low	NTSC : 3.2(CIF), 4.2(Half D1), 8.7(D1) / PAL : 3.9(CIF), 5.1(Half D1), 10.7(D1)	
	Resolution		CIF, Half D1, Full D1	
	Speed(NTSC/PAL)		CIF: 240/200ips, Half D1:120/100ips(Half D1), D1:120/100ips	CIF:360/300ips, Half D1:240/200ips, D1:120/100ips
	Method		Time Lapse, Event(Alarm/Motion/Video Loss), Schedule(Time, Date, Camera), Normal	
Live/Playback	Display Resolution		D1	
	Search Mode		Event Search (Alarm/Motion/Video Loss), Date/Time Search, and Calendar Search, Go to First/Last Search and Backup Search	
	PB Mode		Play, Stop, Pause, FF (Fast Forward), FB (Fast Reverse), and Jog & Shuttle	
	Live Screen Mode		Single, 4, 6, 7, 8, 9, Sequence, Freeze, PIP, 2x Zoom	Single, 4, 6, 7, 8, 9, 16, Sequence, Freeze, PIP, 2x Zoom
	Display Speed (Images/sec)		NTSC:240ips / PAL:200ips	NTSC:480ips / PAL:400ips
	Auto Screen Switchover Time		0, 3, 5, 10, 20, 30sec	
Event	Alert Function		Remote S/W Callback	
	Alarm Input		8Ch, 1 Alarm Reset	16Ch, 1 Alarm Reset
	Alarm Output		4Ch Relay Out	
	Alarm Output Duration	Pre	3, 5, 10, 20, 30sec	
		Post	3, 5, 10, 20, 30sec	
	Motion Detection		Area Setting	
Watermark			Yes	
Storage	Default		160GB	
	Expansion		250GB X4	
	CD-RW		-	
Back Up			IEEE 1394, USB 2.0	
External Port	RS232C		Console	
	RS485		PTZ Device, System Keyboard	
Network			Ethernet(10/100 Base-T), Cable Network, XDSL	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			25% ~ 80% RH	
Power Requirment			AC100 ~ 240V, 50/60Hz	
Power Consumption			60W	
Weight			6.5Kg	
Dimensions			430(W) x 88(H) x 400(D)mm	

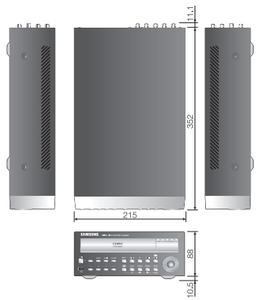
SHR-5000 Series

Features

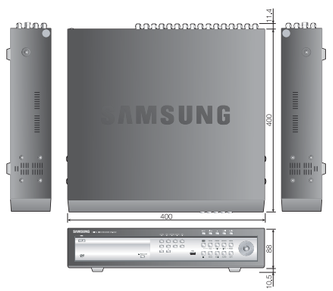
- Video recording up to 120/100ips and 4 channel audio recording
- Recording and network transmission via each codec by adopting dual codec.
- Exclusive video processor : image quality improved by more than 30% compared to existing products.
- Various backup through USB 2.0
  : USB memory, external HDD, external CD-RW (SHR-5042), DVD-RW (SHR-5082/5162).
- Various video outputs supported.
- Simultaneous VGA and composite output.
- Watermark for preventing video alteration.
- Remote monitoring and control through network : Ethernet, cable network, XDSL.
- Convenient IR remote controller and mouse (mouse is only available for SHR-504x).
- Smooth backup by using built-in DVD-RW (SHR-5082/5162).
- Convenient user interface : event, date/time, go to first/last, backup search and calendar functions

Dimensions (unit:mm)

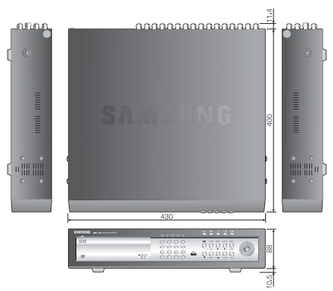
SHR-5040/5042



SHR-5080/5082



SHR-5160/5162



Front / Rear Panel

SHR-5040/5042

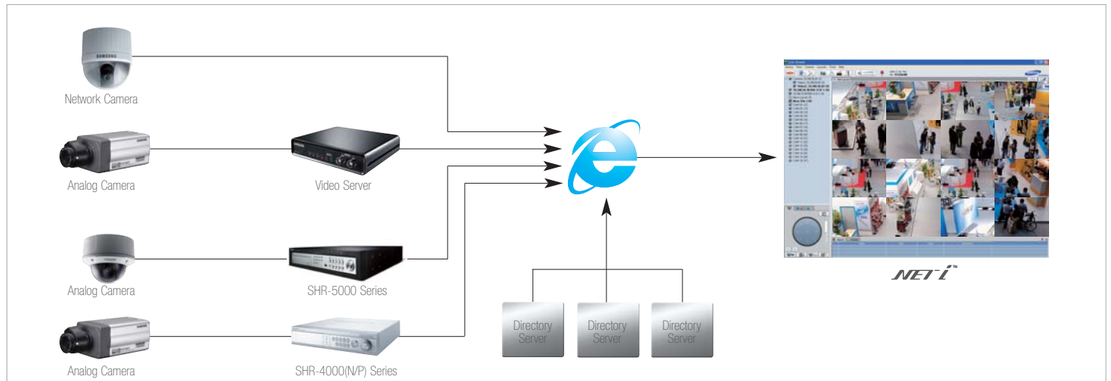
SHR-5080/5082

SHR-5160/5162

* SHR-5082/5162 is installed with a DVD-RW unit.

Network-Integrated Viewer (NET-i™)

The SHR-5000 Series DVR can be monitored with NetI, Samsung's integrated monitoring solution, allowing easy set up of a video management network.



UI for Convenience

MENU SETUP SCREEN

- Monitoring and recording up to 480/400ips and 120/100ips respectively
- Live display of up to 480/400ips and recording of up to 120/100ips

SEARCH SCREEN

- Search by Calendar and Event
- Search by Time and Date or by Event

Remote Monitoring Screen

- Remote DVR management function
- Callback function
- Allowing simultaneous connection up to 3 users

Recording Speed/Recording Speed in Varying Resolutions (250GB Standard)

• SHR-5040/5042

Video Compression Ratio / Recording Speed by Resolution	D1				Half D1				CIF			
	Very High	High	Standard	Low	Very High	High	Standard	Low	Very High	High	Standard	Low
30.0 ips	-	-	-	-	-	-	-	-	155Hr	231Hr	449Hr	862Hr
15.0 ips	-	-	-	-	184Hr	277Hr	517Hr	936Hr	311Hr	463Hr	898Hr	1725Hr
8.0 ips	-	-	-	-	344Hr	519Hr	970Hr	1755Hr	583Hr	868Hr	1683Hr	234Hr
4.0 ips	321Hr	484Hr	906Hr	1.638Hr	689Hr	1037Hr	1940Hr	3509Hr	1166Hr	1736Hr	3366Hr	6468Hr
2.0 ips	643Hr	968Hr	1811Hr	3275Hr	1377Hr	2075Hr	3881Hr	7018Hr	2331Hr	3472Hr	6732Hr	12936Hr
1.0 ips	1285Hr	1936Hr	3622Hr	6550Hr	2755Hr	4149Hr	7761Hr	14037Hr	4662Hr	6944Hr	13464Hr	25871Hr

* The recording time for each recording speed can vary slightly, according to the type of video input signal.
* The above table shows the time taken when recording 1 channel. This product allows selection of the recording time and resolution by channel.

• SHR-5080/5082/5160/5162

Video Compression Ratio / Recording Speed by Resolution	Half D1								CIF							
	Level 8	Level 7	Level 6	Level 5	Level 4	Level 3	Level 2	Level 1	Level 8	Level 7	Level 6	Level 5	Level 4	Level 3	Level 2	Level 1
30.0 ips	238 Hr	267 Hr	304 Hr	347 Hr	413 Hr	510 Hr	667 Hr	911 Hr	403 Hr	456 Hr	510 Hr	598 Hr	693 Hr	866 Hr	1,081 Hr	1,569 Hr
15.0 ips	377 Hr	423 Hr	475 Hr	551 Hr	654 Hr	806 Hr	1,018 Hr	1,439 Hr	630 Hr	707 Hr	806 Hr	936 Hr	1,081 Hr	1,329 Hr	1,724 Hr	2,292 Hr
7.5 ips	619 Hr	693 Hr	779 Hr	899 Hr	1,065 Hr	1,280 Hr	1,643 Hr	2,292 Hr	1,033 Hr	1,153 Hr	1,304 Hr	1,501 Hr	1,724 Hr	2,086 Hr	2,640 Hr	3,594 Hr
3.7 ips	911 Hr	1,018 Hr	1,143 Hr	1,317 Hr	1,534 Hr	1,863 Hr	2,331 Hr	3,183 Hr	1,501 Hr	1,663 Hr	1,863 Hr	2,118 Hr	2,498 Hr	2,979 Hr	3,690 Hr	4,845 Hr
1.8 ips	1,410 Hr	1,560 Hr	1,757 Hr	1,996 Hr	2,331 Hr	2,771 Hr	3,460 Hr	4,530 Hr	2,274 Hr	2,498 Hr	2,799 Hr	3,147 Hr	3,641 Hr	4,253 Hr	5,208 Hr	6,557 Hr
0.9 ips	1,724 Hr	1,907 Hr	2,134 Hr	2,422 Hr	2,813 Hr	3,336 Hr	4,097 Hr	5,307 Hr	2,744 Hr	3,011 Hr	3,356 Hr	3,764 Hr	4,286 Hr	4,975 Hr	5,992 Hr	7,431 Hr

* The recording time for each recording speed can vary slightly, according to the type of video input signal.
* The above table shows the time taken when recording 1 channel. This product allows selection of the recording time and resolution by channel.

4Ch Standalone DVR

SHR-5040/5042

Specifications

Model			SHR-5040	SHR-5042
Video	Input	Composite	4 Channels, 1Vp-p, 75 Ohm	
	Output	Composite	2 channels (Normal 1 Channel, Spot 1 Channel)	
		S-Video	1 Channel	
		VGA	1 Channel	
		Loop Through	4 Channels	
Audio	Input / Output		Mono 4 Channels, RCA / 1 Channel, RCA	
Recording	Compression Method	Video/Audio	MPEG4/ADPCM	
	Video Compression Rate (Kbyte/Image)	Very High	45.1(D1), 24.0(Half D1), 14.2(CIF)	
		High	29.5(D1), 15.9(Half D1), 9.5(CIF)	
		Standard	17.4(D1), 8.5(Half D1), 4.9(CIF)	
		Low	9.1(D1), 4.7(Half D1), 2.6(CIF)	
	Resolution		CIF, Half D1, Full D1	
	Max. Recording Speed (NTSC/PAL)		CIF:120/100ips, Half D1:60/50ips, Full D1:30/25ips	
	Recording Mode		Events (Alarm, Motion Detection, Video Loss)	
Live Screen	Resolution		D1	
	Display Speed (NTSC/PAL)		120ips/100ips	
	Display Mode		Single, 4, PIP, Sequence, Freeze, 2x Zoom	
Network Transmission	Compression Method Video/Audio		MPEG4 / ADPCM	
	Video Compression Rate (Kbyte/Image)	Very High	N/A (Flexible According to Recording Condition)	
		High		
		Standard		
		Low		
	Resolution		CIF, Half D1, Full D1	
Search and Play	Search Mode		Date/Time Search, Search by Camera, Event Search (Alarm, Motion Detection, Video Loss), First/ Latest/ Backup Search	
	Display Mode		Single, 4, 9 (4 Play Screens, 4 Live Screens)	
	Play Mode		Play, Pause, Stop	
Event	Alarm Function/Alarm Input/Alarm Output		Remote Callback / 4 Channels / 2 Channels	
	Alarm Output Continuation Time		Alarm Continues Until it is Turned Off	
	Motion Detection		Area Setup (5 steps)	
	Pre Event Set Time		3, 4, 5 sec	
	Post Event Set Time		5,10,20,30 sec, 1, 3, 5 Min	
Water Mark			Yes	
HDD	Default		160GB	250GB
	Expansion Capability(Total)		250GB x 2	250GB
CD-RW / DVD-RW			-	CD-RW
Backup	Interface		USB 2.0 2 Ports (1 at the Front , 1 at the Rear)	
	Media		CD-RW, External HDD, USB Memory	
	File Format		SFX, AVI	
External Port	RS-485		PTZ Control	
USB Mouse / Remote Controller / Network			Yes / Yes / Static IP, DHCP, ADSL (PPPoE)	
Operating Temp. / Operating Humidity			0°C ~ 40°C / 25% ~ 80% RH	
Power Requirement / Power Consumption			AC 100~240V, 50/60Hz / 28W	
Weight / Dimension			4.0Kg / 215(W) x 88(H) x 352(D)mm	

8Ch Standalone DVR

SHR-5080/5082

Specifications

Model			SHR-5080	SHR-5082
Video	Input	Composite	8 Channels, 1Vp-p, 75 Ohm	
	Output	Composite	3 Channels (Normal 1 Channel, Spot 2 Channels)	
		S-Video	1 Channel	
		VGA	1 Channel	
		Loop Through	8 Channels	
Audio	Input / Output		Mono 4 Channels, RCA / 1 Channel, RCA	
Recording	Compression Method	Video/Audio	MPEG4/ADPCM	
	Video Compression Rate (Kbyte/Image)	Level 8	NTSC : 8.8(Half D1), 5.1(CIF) / PAL : 10.5(Half D1), 6.1(CIF)	
		Level 7	NTSC : 7.8(Half D1), 4.5(CIF) / PAL : 9.4(Half D1), 5.5(CIF)	
		Level 6	NTSC : 6.8(Half D1), 4.0(CIF) / PAL : 8.3(Half D1), 4.8(CIF)	
		Level 5	NTSC : 6.0(Half D1), 3.4(CIF) / PAL : 7.1(Half D1), 4.2(CIF)	
		Level 4	NTSC : 5.0(Half D1), 2.9(CIF) / PAL : 6.0(Half D1), 3.4(CIF)	
		Level 3	NTSC : 4.0(Half D1), 2.3(CIF) / PAL : 4.9(Half D1), 2.8(CIF)	
		Level 2	NTSC : 3.1(Half D1). 1.8(CIF) / PAL : 3.7(Half D1), 2.0(CIF)	
		Level 1	NTSC : 2.2(Half D1), 1.2(CIF) / PAL : 2.6(Half D1), 1.5(CIF)	
	Resolution		CIF, Half D1	
	Max. Recording Speed (NTSC/PAL)		CIF:120/100ips, Half D1:60/50ips	
	Recording Mode		Events (Alarm, Motion Detection, Video Loss)	
Live Screen	Resolution		D1	
	Display Speed (NTSC/PAL)		240ips/200ips	
	Display Mode		Single, 4, 6, 7, 8, 9, 16, PIP, Sequence, Freeze, 2x Zoom	
Network Transmission	Compression Method	Video/Audio	MPEG4 / ADPCM	
	Video	Very High	NTSC : 9.8K(Half D1), 4.9K(CIF) / PAL : 11.7K(Half D1), 5.9K(CIF)	
	Compression	High	NTSC : 7.3K(Half D1), 3.7K(CIF) / PAL : 8.8K(Half D1), 4.4K(CIF)	
	Rate	Standard	NTSC : 4.9K(Half D1), 2.4K(CIF) / PAL : 5.9K(Half D1), 2.9K(CIF)	
	(Kbyte/Image)	Low	NTSC : 2.4K(Half D1), 1.2K(CIF) / PAL : 2.9K(Half D1), 1.5K(CIF)	
	Resolution		CIF, Half D1	
Search and Play	Search Mode		Calendar Search, Event Search (Alarm, Motion Detection,Video Loss), First/ Latest/ Backup Search	
	Display Mode		Single, 4, 9, 16, PIP (1 Channel for Play, 1 Channel for Live), Triplex 9 (1 Channel for Play, 8 Channels for Live),Triplex 16 (1 Channel for Play, 15 Channels for Live)	
	Play Mode		Play, Pause, Stop, 2x Digital Zoom, Fast Forward/Fast Reverse(2x, 4x, 8x, 16x, 32x, 64x)	
Event	Alarm Function/Alarm Input/Alarm Output		Remote Callback / 8 Channels / 4Channels	
	Alarm Output Continuation Time		Off, 3, 5, 10, 20, 30	
	Motion Detection		Area Setup	
	Pre Event Set Time		Off, 5,10,20,30 sec	
	Post Event Set Time		Off, 5,10,20,30 sec, 1, 3, 5, 10, 20 Min	
Water Mark			Yes	
HDD	Default		250GB	
	Expansion Capability(Total)		250GB x 4	250GB x 3
CD-RW / DVD-RW			-	DVD-RW
Backup	Interface		USB 2.0 2 Ports (1 at the Front , 1 at the Rear)	
	Media		CD-RW, External HDD, USB Memory	DVD-RW, External HDD, USB Memory
	File Format		AVI	
External Port	RS-485		PTZ Control, System Keyboard	
USB Mouse / Remote Controller / Network			- / Yes / Static IP, DHCP, ADSL (PPPoE)	
Operating Temp. / Operating Humidity			0°C ~ 40°C / 20% ~ 80% RH	
Power Requirement / Power Consumption			AC 100~230V, 50/60Hz / 60W	
Weight / Dimension			7.3Kg / 430(W) x 88(H) x 400(D)mm	

16Ch Standalone DVR

SHR-5160/5162

Specifications

Model			SHR-5160	SHR-5162
Video	Input	Composite	16 Channels, 1Vp-p, 75 Ohm	
	Output	Composite	3 Channels (Normal 1 Channel, Spot 2 Channels)	
		S-Video	1 Channel	
		VGA	1 Channel	
		Loop Through	16 Channels	
Audio	Input / Output		Mono 4 Channels, RCA / 1 Channel, RCA	
Recording	Compression Method	Video/Audio	MPEG4/ADPCM	
	Video Compression Rate (Kbyte/Image)	Level 8	NTSC : 8.8(Half D1), 5.1(CIF) / PAL : 10.5(Half D1), 6.1(CIF)	
		Level 7	NTSC : 7.8(Half D1), 4.5(CIF) / PAL : 9.4(Half D1), 5.5(CIF)	
		Level 6	NTSC : 6.8(Half D1), 4.0(CIF) / PAL : 8.3(Half D1), 4.8(CIF)	
		Level 5	NTSC : 6.0(Half D1), 3.4(CIF) / PAL : 7.1(Half D1), 4.2(CIF)	
		Level 4	NTSC : 5.0(Half D1), 2.9(CIF) / PAL : 6.0(Half D1), 3.4(CIF)	
		Level 3	NTSC : 4.0(Half D1), 2.3(CIF) / PAL : 4.9(Half D1), 2.8(CIF)	
		Level 2	NTSC : 3.1(Half D1). 1.8(CIF) / PAL : 3.7(Half D1), 2.0(CIF)	
		Level 1	NTSC : 2.2(Half D1), 1.2(CIF) / PAL : 2.6(Half D1), 1.5(CIF)	
	Resolution		CIF, Half D1	
	Max. Recording Speed (NTSC/PAL)		CIF:120/100ips, Half D1:60/50ips	
	Recording Mode		Events (Alarm, Motion Detection, Video Loss)	
Live Screen	Resolution		D1	
	Display Speed (NTSC/PAL)		480ips/400ips	
	Display Mode		Single, 4, 6 ,7, 9, PIP, Sequence, Freeze, 2x Zoom	
Network Transmission	Compression Method	Video/Audio	MPEG4 / ADPCM	
	Video Compression Rate (Kbyte/Image)	Very High	NTSC : 9.8K(Half D1), 4.9K(CIF) / PAL : 11.7K(Half D1), 5.9K(CIF)	
		High	NTSC : 7.3K(Half D1), 3.7K(CIF) / PAL : 8.8K(Half D1), 4.4K(CIF)	
		Standard	NTSC : 4.9K(Half D1), 2.4K(CIF) / PAL : 5.9K(Half D1), 2.9K(CIF)	
		Low	NTSC : 2.4K(Half D1), 1.2K(CIF) / PAL : 2.9K(Half D1), 1.5K(CIF)	
	Resolution		CIF, Half D1	
Search and Play	Search Mode		Calendar Search, Event Search (Alarm, Motion Detection,Video Loss), First/ Latest/ Backup Search	
	Display Mode		Single, 4, 9, 16, PIP (1 Channel for Play, 1 Channel for Live), Triplex 9 (1 Channel for Play, 8 Channels for Live),Triplex 16 (1 Channel for Play, 15 Channels for Live)	
	Play Mode		Play, Pause, Stop, 2x Digital Zoom, Fast Forward/Fast Reverse(2x, 4x, 8x, 16x, 32x, 64x)	
Event	Alarm Function/Alarm Input/Alarm Output		Remote Callback / 16 Channels / 4Channels	
	Alarm Output Continuation Time		Off, 3, 5, 10, 20, 30	
	Motion Detection		Area Setup	
	Pre Event Set Time		Off, 5,10,20,30 sec	
	Post Event Set Time		Off, 5,10,20,30 sec, 1, 3, 5, 10, 20 Min	
Water Mark			Yes	
HDD	Default		250GB	
	Expansion Capability(Total)		250GB x 4	250GB x 3
CD-RW / DVD-RW			-	DVD-RW
Backup	Interface		USB 2.0 2 Ports (1 at the front , 1 at the rear)	
	Media		CD-RW, External HDD, USB Memory	DVD-RW, External HDD, USB Memory
	File Format		AVI	
External Port	RS-485		PTZ Control, System Keyboard	
USB Mouse / Remote Controller / Network			- / Yes / Static IP, DHCP, ADSL (PPPoE)	
Operating Temp. / Operating Humidity			0°C ~ 40°C / 20% ~ 80% RH	
Power Requirement / Power Consumption			AC 100~230V, 50/60Hz / 60W	
Weight / Dimension			7.3Kg / 430(W) x 88(H) x 400(D)mm	

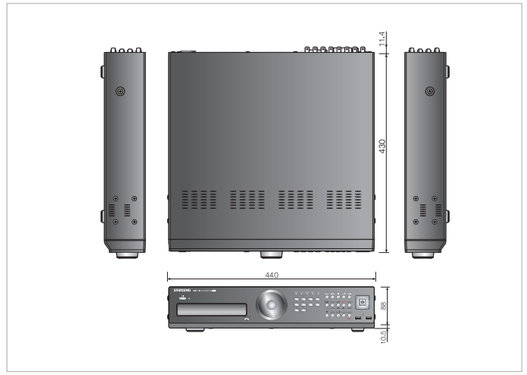
8Ch CIF Resolution Real-time Standalone DVR

SHR-7080/7082 NEW

Features

- Standard MPEG-4 compression
- Rec. Real-time on 8 cameras : 240ips(NTSC) / 200ips(PAL)
- Built in internal DVD R/W
- Simultaneous recording & transmission : dual codec function
- Net-i connected
- Support POS (I/F VSI - pro) (option)
- Web based monitoring & search
- Simultaneous BNC output & VGA
- Stable system operation : remote diagnosis function.
- HDMI output
- Internal RAID 1 function (option)

Dimensions (unit:mm)



Front / Rear Panel

Specifications

Model			SHR-7080	SHR-7082
Video	Input	Loop Through	8 Channels	
	Output	Composite	2 Channels(Normal 1ch ,SPOT 1ch)	
		VGA	800 x 600 / 1024 x 768 / 1280 x 1024 (60Hz)	
		HDMI	1080P	
Audio	Input / Output		8Ch(4 RCA,4 D-sub) / 1	
Recording	Audio CH		8Ch	
	Resolution & Frame Rate		NTSC : CIF(352x240):240ips Half D1(704x240):120ips D1(704x480):60ips	
			PAL : CIF(352x288):200ips Half D1(704x288):100ips D1(704x576):50ips	
Play Back	Resolution & Frame Rate		NTSC : CIF(352x240):240ips Half D1(704x240):120ips D1(704x480):60ips	
			PAL : CIF(352x288):200ips Half D1(704x288):100ips D1(704x576):50ips	
Storage	Internal		Without DVD-RW:HDD Max 6. 3TB(500GB x 6)	With DVD-RW: HDD Max 5.2.5TB(500GB x 5)
	Extended I/F		SATA I/F(2Port) / 1Port:Max 4 HDD I/F / Max 4TB I/F(500GBx8)	
Network	Interface		LAN 1 port(10/100/1000 Base-T Ethernet)	
	Protocol		ADSL(PPPoE), DHCP, DNS, NTP	
Control	RS-485		1 port	
	Support Mouse		Support(USB)	
Backup	DVD-RW		-	DVD RW(-R,+R,-RW,+RW)
	USB		USB 2.0(3 ports)	
	Back up Viewr Format		AVI / SEC	
Client S/W	Support OS		Windows 2000, Windows XP, Windows Vista	
	Web Viewer		Support Live / REC / Search	
	Remote Viewer		Net-i	
Power Requirment			AC 100~230V, 50/60Hz / 60W	
Power Consumption			approx 70W	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			20% ~ 85% RH	
Dimensions			440(W) x 88(H) x 430(D)mm	
Weight			7.7kg	

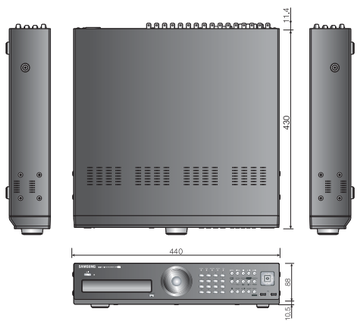
16Ch CIF Resolution Real-time Standalone DVR

SHR-7160/7162 NEW

Features

- Standard MPEG-4 compression
- Rec. Real-time on 16 cameras:480ips (NTSC)/400ips(PAL)
- Built in Internal DVD R/W
- Simultaneous recording & transmission : dual codec function
- Net-i connected
- Support POS(I/F VSI - pro)(option)
- Web based monitoring & search
- Simultaneous BNC output & VGA
- Stable system operation : remote diagnosis function.
- HDMI output
- Internal RAID 1 function(option)

Dimensions (unit:mm)



Front / Rear Panel

Specifications

Model			SHR-7160	SHR-7162
Video	Input	Loop through	16 Channels	
	Output	Composite	2 Channels(Normal 1ch ,SPOT 1ch)	
		VGA	800 x 600 / 1024 x 768 / 1280 x 1024 (60Hz)	
		HDMI	1080P	
Audio	Input / Output		16Ch(4 RCA,12 D-sub) / 1	
Recording	Audio CH		16Ch	
	Resolution & Frame Rate		NTSC : CIF(352x240):480ips Half D1(704x240):240ips D1(704x480):120ips	
			PAL : CIF(352x288):400ips Half D1(704x288):200ips D1(704x576):100ips	
Play Back	Resolution & Frame Rate		NTSC : CIF(352x240):480ips Half D1(704x240):240ips D1(704x480):120ips	
			PAL : CIF(352x288):400ips Half D1(704x288):200ips D1(704x576):100ips	
Storage	Internal		Without DVD-RW:HDD Max 6. 3TB(500GB x 6)	With DVD-RW: HDD Max 5. 2.5TB(500GB x 5)
	Extended I/F		SATA I/F(2Port) / 1Port:Max 4 HDD I/F / Max 4TB I/F(500GBx8)	
Network	Interface		LAN 1 port(10/100/1000 Base-T Ethernet)	
	Protocol		ADSL(PPPoE), DHCP, DNS, NTP	
Control	RS-485		1 port	
	Mouse		Support(USB)	
Backup	DVD-RW		-	DVD RW(-R,+R,-RW,+RW)
	Back up Viewr Format		AVI / SEC	
	USB		USB 2.0(3 ports)	
Client S/W	Support OS		Windows 2000, Windows XP, Windows Vista	
	Web Viewer		Support Live / REC / Search	
	Remote Viewer		Net-i	
Power Requirment			AC 100~230V, 50/60Hz / 60W	
Power Consumption			approx 75W	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			20% ~ 85% RH	
Dimensions			440W) x 88(H) x 430(D)mm	
Weight			7.7 kg	

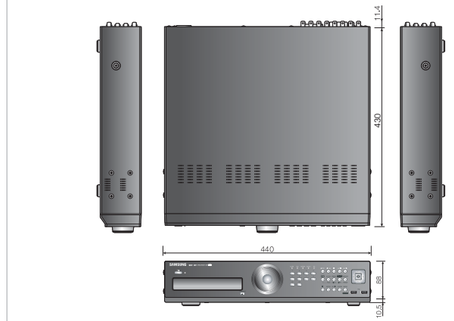
8Ch CIF Resolution Real-time Standalone DVR

SHR-8080/8082 NEW

Features

- Standard MPEG-4 compression
- D1 resolution
- Rec. Real-time on 8 cameras : 240ips (NTSC) / 200ips(PAL)
- Built in internal DVD R/W
- Simultaneous recording & transmission : dual codec function
- Net-i connected
- Support POS (I/F VSI - pro) (option)
- Web based monitoring & search
- Simultaneous BNC output & VGA
- Stable system operation : remote diagnosis function
- HDMI output
- Internal RAID 1 function (option)

Dimensions (unit:mm)



Front / Rear Panel

Specifications

Model			SHR-8080	SHR-8082
Video	Input	Loop Through	8 Channels	
	Output	Composite	3 Channels(Normal 1ch ,SPOT 2ch)	
		VGA	800 x 600 / 1024 x 768 / 1280 x 1024 (60Hz)	
		HDMI	1080P	
Audio	Input / Output		8Ch(4 RCA,4 D-sub) / 1	
Recording	Audio CH		8Ch	
	Resolution & Frame Rate		NTSC : CIF(352x240):240ips Half D1(704x240):240ips D1(704x480):240ips	
			PAL : CIF(352x288):200ips Half D1(704x288):200ips D1(704x576):200ips	
Play Back	Resolution & Frame Rate		NTSC : CIF(352x240):240ip Half D1(704x240):240ips D1(704x480):120ips	
			PAL : CIF(352x288):200ips Half D1(704x288):200ips D1(704x576):100psi	
Storage	Internal		Without DVD-RW:HDD Max 6. 3TB(500GB x 6)	With DVD-RW: HDD Max 5. 2.5TB(500GB x 5)
	Extended I/F		SATA I/F(2Port) / 1Port:Max 4 HDD I/F / Max 4TB I/F(500GBx8)	
Network	Interface		LAN 1 port(10/100/1000 Base-T Ethernet)	
	Protocol		ADSL(PPPoE), DHCP, DNS, NTP	
Control	RS-485		1 port	
	Mouse		Support(USB)	
Backup	DVD-RW		-	DVD RW(-R,+R,-RW,+RW)
	USB		USB 2.0 (3 ports)	
	Back up Viewr Format		AVI / SEC	
Client S/W	Support OS		Windows 2000, Windows XP, Windows Vista	
	Web Viewer		Support Live / REC / Search	
	Remote Viewer		Net-i	
Power Requirment			AC 100~230V, 50/60Hz / 60W	
Power Consumption			approx 70W	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			20% ~ 85% RH	
Dimensions			440(W) x 88(H) x 430(D)mm	
Weight			7.7kg	

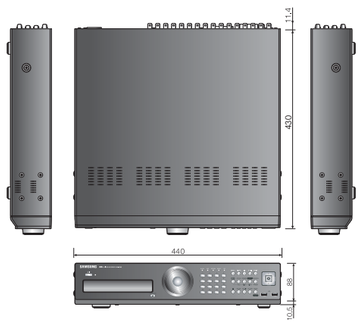
16Ch CIF Resolution Real-time Standalone DVR

SHR-8160/8162 NEW

Features

- Standard MPEG-4 compression
- D1 resolution
- Rec. Real-time on 16 cameras:480ips (NTSC)/400ips(PAL)
- Built in internal DVD R/W
- Simultaneous recording & transmission : dual codec function
- Net-i connected
- Support POS(I/F VSI - pro)(option)
- Web based monitoring & search
- Simultaneous BNC output & VGA
- Stable system operation : remote diagnosis function.
- HDMI output
- Internal RAID 1 function(option)

Dimensions (unit:mm)



Front / Rear Panel

Specifications

Model			SHR-8160	SHR-8162
Video	Input	Loop Through	16 Channels	
	Output	Composite	5 Channels(Normal 1ch ,SPOT 4ch)	
		VGA	800 x 600 / 1024 x 768 / 1280 x 1024 (60Hz)	
		HDMI	1080P	
Audio	Input / Output		16Ch(4 RCA,12 D-sub) / 1	
Recording	Audio CH		16Ch	
	Resolution & Frame Rate		NTSC : CIF(352x240):480ips Half D1(704x240):480ips D1(704x480):480ips	
			PAL : CIF(352x288):400ips Half D1(704x288):400ips D1(704x576):400ips	
Play Back	Resolution & Frame Rate		NTSC : CIF(352x240):480ips Half D1(704x240):240ips D1(704x480):120ips	
			PAL : CIF(352x288):400ips Half D1(704x288):200ips D1(704x576):100ips	
Storage	Internal		Without DVD-RW:HDD Max 6. 3TB(500GB x 6)	With DVD-RW: HDD Max 5. 2.5TB(500GB x 5)
	Extended I/F		SATA I/F(2Port) / 1Port:Max 4 HDD I/F / Max 4TB I/F(500GBx8)	
Network	Interface		LAN 1 port(10/100/1000 Base-T Ethernet)	
	Protocol		ADSL(PPPoE), DHCP, DNS, NTP	
Control	RS-485		1 port	
	Mouse		Support(USB)	
Backup	DVD-RW		-	DVD RW(-R,+R,-RW,+RW)
	Back up Viewr Format		AVI / SEC	
	USB		USB 2.0 (3 ports)	
Client S/W	Support OS		Windows 2000, Windows XP, Windows Vista	
	Web Viewer		Support Live / REC / Search	
	Remote Viewer		Net-i	
Power Requirment			AC 100~230V, 50/60Hz / 60W	
Power Consumption			approx 75W	
Operating Temperature			0°C ~ 40°C	
Operating Humidity			20% ~ 85% RH	
Dimensions			440(W) x 88(H) x 430(D)mm	
Weight			7.8kg	

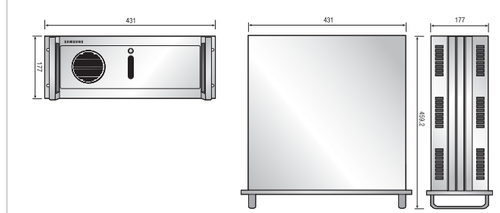
16Ch PC Based DVR

SPR-9716/9816 NEW

Features

- Recording at a maximum speed of 480/400ips (SPR-9716/9816, 320x240 standard)
- Various resolutions can be set for monitoring or recording (D1, Half D1, CIF)
- Recording compression ratio : 352 X 240 = average 3Kb/F, 704 X 480 = average 8Kb/F
- Hardware watchdog: auto-recovery system when the system is operating abnormally
- Video correction circuit : 4 phases, according to the distance between the DVR and the external monitor settings : 100m, 200m, 300m or 400m
- Motion detection • Alarm output
- Image quality adjustment (sharp, soft and revised), screen enlargement and reduction
- Alert sound generated when a motion is detected by a camera
- 16 channel simultaneous video/audio recording and searching
- Pan/tilt/zoom of the camera can be controlled (built-in zoom cameras only)
- Emergency screen automatically sent to the center set in emergency situations
- Auto password-check: prevents arbitrary manipulation by outside hackers when communicating remotely to change a system setting
- Remote DVR control through the network
- Video checking and Real-time monitoring through the network from a remote location
- 20 DVRs can be simultaneously managed from a client viewer
- Watermark • Built-in virus protection • RoHS

Dimensions (unit:mm)



Specifications

Model		SPR-9716	SPR-9816
System Specifications	CPU	Intel Pentium Dual-Core E2140	
	Main Memory	Asus I945G-IGA	
	HDD	250GB SATA (1+3 EA)	
	ODD	DVD-Multi (SATA)	
	Graphic Card	SDC-5100	SDC-5400
	Audio	16CH, G.726	
	O/S	Windows XP Pro Embedded / Recovery Solution	
	Output Monitor	1 VGA (1024 x 768), 1CH SPOT (2), Multi CH SPOT(1)	
Functions	Video Input	16Ch Composite Video(75Ω BNC Connection)	
	Video Output	1 VGA (1024 x 768) , 1CH SPOT (2) , Multi CH SPOT	
	Audio Input/Output	16 Port Input / 1Port Output	
	Display Speed	480ips(NTSC)/400ips(PAL)	
	Recording Speed	320 x 240 : 120 ips	320 x 240 : 480 ips
	Compression Method	MPEG4	
	Compression Rate	352 X 240 = Average 3Kb/F, 704 X 480 = Average 8Kb/F	
	Recording Resolution	160 x 120, 320 x 240, 640 x 240, 640 x 480	
	Screen Split	1, 4, 6, 9, 10, 13, 16	
	Sensor Input	16Ch : NO(Normal Open Type) or NC(Normal Close Type)	
	Alarm Input/Output	16Ch/4Ch	
	Network	LAN : 120image/sec	
	Transmission	PSTN : 1 ~ 5image/sec	
	Speed	ISDN : 3 ~ 10image/sec	
	Camera/Sensor Link	M:N link	
	Alarm Output Duration	1 ~ 10 seconds	
	Pan/Tilt Control	RS-422, RS-485, RS-232	
	Data Backup	Automatic/Manual Backup Function Through HDD, DVD and network drive	
Power Requirment		AC 110~220V, 50/60Hz Input	
Power Consumption		75W	
Weight		16.3Kg	
Dimensions		431(W) x 177(H) x 459.2(D)mm	

Network

Network Camera I **Encoder** I **VMS**

SNC-B2315_92
SNC-B5395_94
SNC-M300_96
SCC-C6475_98

SNT-1010_100

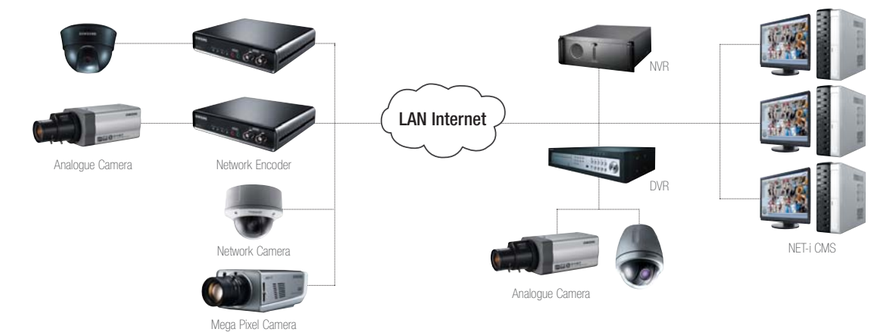
NET-i S/W_102

NET-i™

NET-i™ is new IP SOLUTION of SAMSUNG ELECTRONICS which provides intelligent monitoring at Anytime from Anywhere.

Samsung Electronics proudly presents the solution, named NET-i™ that is a systematic, integrated and intelligent security & surveillance solution, provided with the best of breed technologies and Samsung's expertise in the industry.
Highly balanced & well structured technology of security & surveillance products of Samsung consist of NET-i™ solution.
The network based solution NET-i™ of Samsung Electronics & its related packages has positioned in innovative security solutions that bears the integrated and intelligent surveillance in real time basis at anywhere.

NET-i™ System Configuration



Dual Codec D1 Real-time Network Camera

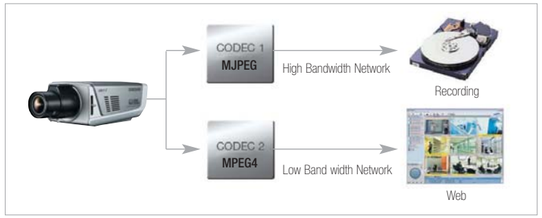
SNC-B2315 NEW

Features

- Real-time 30/25 images per second at high resolution(D1)
- MPEG-4 & motion JPEG dual encoding and streaming simultaneously
- Video motion detection
- Pre/post alarm image buffering
- WDR (Wide Dynamic Range)
- True Day and Night function
- DDNS support
- Power over ethernet (PoE) support
- Bi-directional audio support
- SD memory card slot for alarm image recording

Dual Encoding / Streaming

With dual-encoding capability, SNC-B2315 can generate and transfer both MJPEG and MPEG4 images simultaneously at 30fps (PAL 25fps) even though the image size is set to D1 resolution (NTSC 720x480, PAL 720x576).
This dual encoding and streaming capability is useful for transferring MPEG4 images over limited network bandwidth, while also storing high resolution MJPEG Images to the Nertwork Recording Software or NVR device.



Real-time Framerate

SNC-B2315 adopted the High Performance TI DaVinci DSP technology which provides Real-time framerate (NTSC:30fps, PAL:25fps) at D1 resolution.
This capability dosen't allow SNC-B2315 IP camera to miss important moments.

30(25) frame/sec @ D1 Resolution

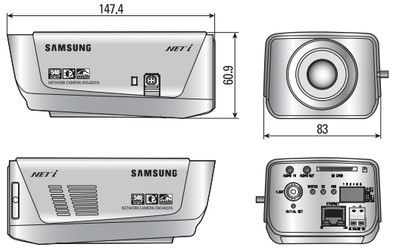
Low framerate IP Camera

SD Memory Slot

User can select important images to be recorded to the SD memory card such as: Alarm Events, Motion Detection or Time Scheduled Events.
Using the WebViewer or Net-i software, you can remotely access the images from the SD card installed in the SNC-B2315.

* SNC-B2315 is compatible with SD and SDHC standard.
* SNC-B2315 can support up to 16GB capacity of SDHC memory.

Dimensions (unit:mm)



Specifications

Model			SNC-B2315
Camera	Scanning System		NTSC : 525 Lines, 30f/sec / PAL : 625 Lines, 25f/sec
	Image Device		NTSC : 1/3" 410K SONY PS CCD / PAL : 1/3" 470K SONY PS CCD
	Pixels (Effective)		NTSC : 768(H) x 494(V) / PAL : 752(H) x 582(V)
	Synchronizing System		Internal
	Resolution		Color: 540 TV Lines, B/W: 570 TV Lines
	S/N		50dB
	Min.Scene Illumination		Color : 0.4 Lux(50IRE) 0.0005 Lux(15IRE,Sens up 256x)
			B/W : 0.04 Lux(50IRE) 0.00005 Lux(15IRE,Sens up 256x)
	WDR		Yes
	Day&Night		Yes (Moving Filter)
	DNR (Digital Noise Reduction)		Yes
	Lens		Auto Iris (Video/DC)/ Manual Iris
	Lens Mount		CS/C (Mount adaptor)
	Video Output Level		VBS 1.0Vp-p(75Ω ,Composite)
Environment	Network Board	OS	Embedded Linux
	Client Viewer	OS	Windows XP, VISTA
Client S/W			1Ch WebBrowser Viewer(Default), NET-i Professional 1.0 S/W
Browser	Web browser		Internet explorer 6.0 higher
Compression	Audio & Video Codec		MPEG4, MJPEG, G.711
Network Hardware	Flash memory		32M byte
	SDRAM		128M byte
Network	Ethernet		10/100BASE-T
	Network Protocol	Network Protocol	TCP, UDP, NTP, HTTP, DHCP, PPPoE, FTP, SMTP
		Streaming	TCP, UDP(Unicast, Multicast)
		DDNS	Supporting Samsung DDNS and Public DDNS Servers
Video Resolution	NTSC	D1	720x480
		VGA	640x480
		CIF	352x240
	PAL	D1	720x576
		VGA	640x480
		CIF	352x288
Frame Rate	NTSC		30,15,8,3,1 fps
	PAL		25,13,6,3,1 fps
Video Quality	Quality		Very High, High, Normal, Low, Very Low
Motion Detection	Sensitivity		High, Medium, Low
Audio	ADPCM	G.711	2-Way
Connection Users			Max 10 Users at Unicast Mode
Alarm I/O			Input : 2, Output : 2
Alarm Event	Alarm Input		Image Transfer : FTP, E-mail / Notification : Notify to Viewer
			Alarm Out / Recording : SD/SDHC Card
	Motion Detection		Image Transfer : FTP, E-mail / Notification : Notify to Viewer
			Alarm Out / Recording : SD/SDHC Card
	Schedule		Image Transfer : FTP, E-mail / Recording : SD/SDHC Card
IP Installer	IP address installation		IP Installation Function (XP, VISTA support)
Software Upgrade	Firmware upgrade		Firmware Upgrade by Web Browser
Access Level	Login access Level		Administrator, Operator, User
Time Setting			NTP Time Sync, PC Time Sync, Manual Setting
Language			Multiple Language GUI Support
SDK	HTTP API	CGI Command	Provides Functionality to Control Cameras and Set/Retrieve Internal Parameter Values.
	Windows API		Windows API for Viewing Data Streams from Network Camera.
Hardware	Input/Output sockets		Video Out(BNC), Power(2-Pin Term), RJ-45 / SD Card Slot
			Terminal 6Pin(Alarm In 2Pin, Alarm Out 2Pin, GND ,Day/Night In)
Operating Temperature			14˚ F~122˚ F(-10˚ C~50˚ C)
Operating Humidity			20% ~ 85% RH
Power Requirement			AC24V(60/50Hz)/DC12V/ PoE
Power Consumption			8W
LED Indicator			3 ea
Dimensions			83(W) x 60.9(H) x 147.4(D)mm
Weight			0.45kg
Body Color			Silver

Dual Codec Anti-Vandal Dome Network Camera

SNC-B5395 NEW

Features

- Anti-vandal vari-focal dome network camera (IP66 grade)
- Real-time 30/25 images per second at high resolution (D1)
- MPEG-4 & motion JPEG dual encoding and streaming simultaneously
- Video motion detection
- Pre/post alarm image buffering
- True Day and Night function
- DDNS support
- Power over ethernet (PoE) support
- Bi-directional audio support
- SD memory card slot for alarm image recording

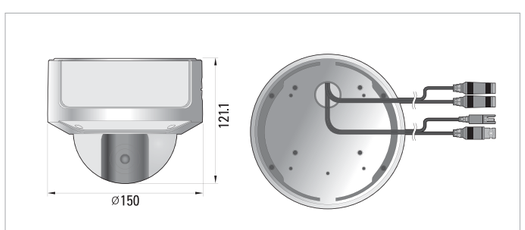
Real-time Framerate

SNC-B5395 adopted the High Performance TI DaVinci DSP technology which provides Real-time framerate (NTSC:30fps, PAL:25fps) at D1 resolution.
This capability dosen't allow SNC-B5395 IP camera to miss important moments.

30(25) frame/sec @ D1 Resolution

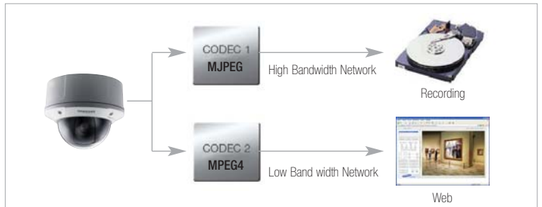
Low framerate IP Camera

Dimensions (unit:mm)



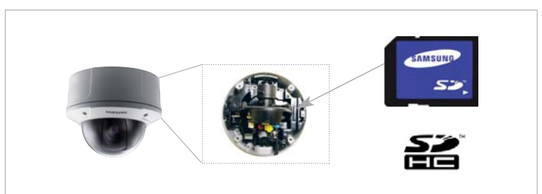
Dual Encoding / Streaming

With dual-encoding capability, SNC-B5395 can generate and transfer both MJPEG and MPEG4 images simultaneously at 30fps (PAL 25fps) even though the image size is set to D1 resolution (NTSC 720x480, PAL 720x576).
This dual encoding and streaming capability is useful for transferring MPEG4 images over limited network bandwidth, while also storing high resolution MJPEG Images to the Nertwork Recording Software or NVR device.



SD Memory Slot

User can select important images to be recorded to the SD memory card such as: Alarm Events, Motion Detection or Time Scheduled Events.
Using the WebViewer or Net-i software, you can remotely access the images from the SD card installed in the SNC-B5395.



* SNC-B5395 is compatible with SD and SDHC standard.
* SNC-B5395 can support up to 16GB capacity of SDHC memory.

Specifications

Model			SNC-B5395
Camera	Scanning System		NTSC : 525 Lines, 30f/sec / PAL : 625 Lines, 25f/sec
	Image Device		NTSC : 1/3" 410K Super-HAD CCD / PAL : 71/3" 470K Super-HAD CCD
	Pixels (Effective)		NTSC : 768(H) x 494(V) / PAL : 752(H) x 582(V)
	Synchronizing System		Internal
	Resolution		Color: 540 TV Lines, B/W: 570 TV Lines
	S/N		50dB
	Min.Scene Illumination		Color :0.4 Lux(50IRE) 0.0005 Lux(15IRE,Sens up 256x)
			B/W : 0.04 Lux(50IRE) 0.00005 Lux(15IRE,Sens up 256x)
	Day&Night		Yes (Moving Filter)
	DNR (Digital Noise Reduction)		Yes
	Lens		f2.9~10mm Vari-Focal Lens
	Low Speed Shutter		Yes(On/Off :Off _ x128)
	Video Output Level		VBS 1.0Vp-p(75Ω ,Composite)
Environment	Network Board	OS	Embedded Linux
	Client Viewer	OS	Windows XP, VISTA
Client S/W			1CH WebBrowser Viewer(Default), Net-i Professional 1.0 S/W
Browser	Web browser		Internet Explorer 6.0 Higher
Compression	Audio & Video Codec		MPEG4, MJPEG, G.711
Network	Flash Memory		32M byte
Hardware	SDRAM		128M byte
Network	Ethernet		10/100BASE-T
	Network Protocol	Network Protocol	TCP, UDP, NTP, HTTP, DHCP, PPPoE, FTP, SMTP
		Streaming	TCP, UDP(Unicast, Multicast)
		DDNS	Supporting Samsung DDNS and Public DDNS Servers
Video Resolution	NTSC	D1	720x480
		VGA	640x480
		CIF	352x240
	PAL	D1	720x576
		VGA	640x480
		CIF	352x288
Frame Rate	NTSC		30, 15, 8, 3, 1 fps
	PAL		25, 13, 6, 3, 1 fps
Video Quality			Very High, High, Normal, Low, Very Low
Motion Detection	Sensitivity		High, Medium, Low
Audio	ADPCM	G.711	2-Way
Connection Users			Max 10 Users at Unicast Mode
Alarm I/O			Input : 2, Output : 2
Alarm Event	Alarm Input		Image Transfer : FTP, E-mail / Notification : Notify to Viewer
			Alarm Out / Recording : SD/SDHC Card
	Motion Detection		Image Transfer : FTP, E-mail / Notification : Notify to Viewer
			Alarm Out / Recording : SD/SDHC Card
	Schedule		Image Transfer : FTP, E-mail / Recording : SD/SDHC Card
IP installer	Ip address installation		IP Installation Function (XP, VISTA support)
Software Upgrade	Firmware upgrade		Firmware Upgrade by Web Browser
Access Level	Login access Level		Administrator, Operator, User
Time setting			NTP Time Sync, PC Time Sync, Manual Setting
Language			Multiple Language GUI support
SDK	HTTP API	CGI Command	Provides Functionality to Control Cameras and Set/Retrieve Internal Parameter Values.
	Windows API		Windows API for Viewing Data Streams from Network Camera.
Hardware	Input/Output sockets		Video Out(BNC), Power(2-Pin Term), RJ-45 / SD Card Slot
			Terminal 6Pin(Alarm In 2Pin, Alarm Out 2Pin, GND ,Day/Night In)
Operating Temperature			14˚ F~122˚ F(-10˚ C~50˚ C)
Operating Humidity			20% ~ 85% RH
Power Requirement			AC24V(60/50Hz)/DC12V/ PoE
Power Consumption			8W
LED Indicator			N/A
Dimensions			150(ø) x 121(H)mm
Weight			1.16kg
Body Color			Pearl White

3 Mega-Pixel Network Camera

SNC-M300 NEW

Features

- 3 mega pixel network camera
- MPEG-4 & motion JPEG dual encoding and streaming simultaneously
- 1.3 / 2 / 3 mega pixel resolution (selectable)
- Video motion detection
- Pre/post alarm image buffering
- DDNS support
- Power over ethernet (PoE) support
- Bi-directional audio support
- SD memory card slot for alarm image recording

3 Mega Pixel Resolution

With mega pixel resolution, SNC-M300 delivers sharp and vivid images for high-end surveillance and security monitoring.

VGA (640 x 480)

3 Mega Pixel (2048 x 1536)

Various Mega Pixel Resolution

Samsung Mega Pixel Camera SNC-M300 provides 1.3M, 2M and 3M pixel resolution by selectable configuration.

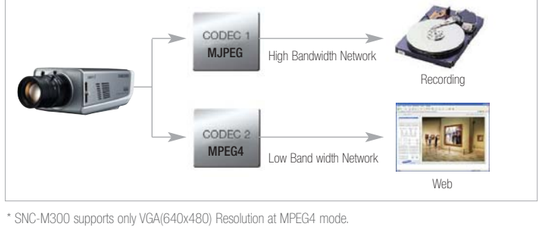
1.3M (1280x1024)

2M (1600x1200)

3M (2048x1536)

Dual Encoding / Streaming

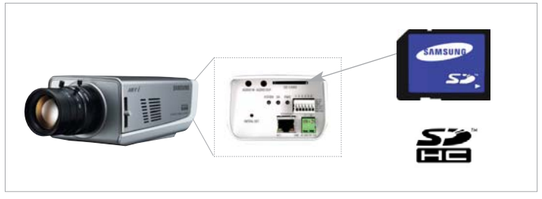
With dual-encoding capability, SNC-M300 can generate and transfer both MJPEG and MPEG4 images simultaneously.
This dual encoding and streaming capability is useful for transferring MPEG4 images over limited network bandwidth, while also storing high resolution MJPEG Images to the Nertwork Recording Software or NVR device.



* SNC-M300 supports only VGA(640x480) Resolution at MPEG4 mode.

SD Memory Slot

User can select important images to be recorded to the SD memory card such as: Alarm Events, Motion Detection or Time Scheduled Events.
Using the WebViewer or Net-i software, you can remotely access the images from the SD card installed in the SNC-M300.

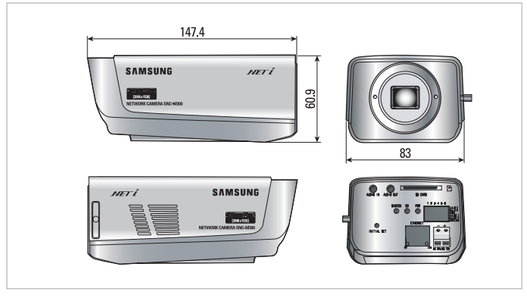


* SNC-M300 is compatible with SD and SDHC standard.
* SNC-M300 can support up to 16GB capacity of SDHC memory.

Specifications

Model			SNC-M300
Camera	Scanning System		Progressive QXGA
	Image Device		1/2" 3 Mega Pixel CMOS
	Synchronizing System		Internal
	Resolution		MJPEG : 2048x1536, 1600x1200, 1280x1024 / MPEG4 : 640x480
	Video Output (BNC)		N/A
Environment	Network Board	OS	Embedded Linux
	Client Viewer	OS	Windows XP, VISTA
Client S/W			1CH WebBrowser Viewer(Default), Net-i Professional 1.0 S/W
Browser	Web Browser		Internet Explorer 6.0 Higher
Compression	Audio & Video Codec		MPEG4 ,MJPEG, G.711
Network	Flash Memory		32M byte
Hardware	SDRAM		128M byte
Network	Ethernet		10/100BASE-T
	Network Protocol	Network Protocol	TCP, UDP, NTP, HTTP, DHCP, FTP, SMTP
		Streaming	TCP, UDP(Unicast, Multicast)
		DDNS	Supporting Samsung DDNS and Public DDNS Servers
Video Resolution	NTSC/PAL	MJPEG	3 MegaPixel (2048 X 1536)
			2 MegaPixel (1600 X 1200)
			1.3 MegaPixel (1280 X 1024)
		MPEG4	VGA (640x480) Only
Frame Rate	NTSC/PAL	MJPEG	3 MegaPixel : 12, 6, 3, 1 FPS
			2 MegaPixel : 19, 10, 5, 1 FPS
			1.3 MegaPixel : 25, 13, 6, 1 FPS
		MPEG4	Same as MJPEG Framerate @ VGA
Video Quality			Very High, High, Normal, Low, Very Low
Motion Detection	Sensitivity		High, Medium, Low
Audio	ADPCM	G.711	2-Way
Connection Users			Max 10 Users at Unicast Mode
Alarm I/O			Input : 2, Output : 2
Alarm Event	Alarm Input		Image Transfer : FTP, E-mail / Notification : Notify to Viewer
			Alarm Out / Recording : SD/SDHC Card
	Motion Detection		Image Transfer : FTP, E-mail / Notification : Notify to Viewer
			Alarm Out / Recording : SD/SDHC Card
	Schedule		Image Transfer : FTP, E-mail / Recording : SD/SDHC Card
IP Installer	IP Address Installation		IP Installation Function (XP, VISTA support)
Software Upgrade	Firmware Upgrade		Firmware Upgrade by Web Browser
Access Level	Login Access Level		Administrator, Operator, User
Time Setting			NTP Time Sync, PC Time Sync, Manual Setting
Language			Multiple Language GUI Support
SDK	HTTP API	CGI Command	Provides Functionality to Control Cameras and Set/Retrieve Internal Parameter Values.
	Windows API		Windows API for Viewing Data Streams from Network Camera.
Hardware	Input/Output sockets		Power(2-Pin Term), RJ-45, SD Card Slot, Terminal 6Pin(Alarm In 2Pin, Alarm Out 2Pin, GND)
Operating Temperature			14˚ F~122˚ F(0˚ C~50˚ C)
Operating Humidity			20% ~ 85% RH
Power Requirement			AC24V(60/50Hz)/DC12V/ PoE
LED Indicator			3 ea
Dimensions			83(W) x 60.9(H) x 147.4(D)mm
Weight			0.42Kg
Body Color			Silver

Dimensions (unit:mm)



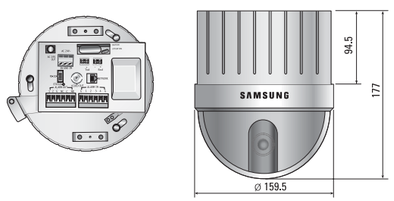
SmartDome Network Camera

SCC-C6475

Features

- 1/4" 410K pixels Ex View CCD
- 220x zoom, through a combination of a 22x zoom lens, and a 10x digital zoom
- Minimum scene illumination of 0.002 Lux (sens up 160x)
- Day & Night
- WDR (Wide Dynamic Range)
- Pan, tilt, zoom, preset, pattern and manual focus
- 360° horizontal and 180° vertical turning while searching, at a maximum speed of 400°/sec
- Privacy zone that allows the user to set up to 12 privacy zones
- Up to 128 points can be preset
- Motion detection (zone and sensitivity level set by user)
- Alarm input: 4 channels, alarm output: 3 channels
- Supports various network protocols : HTTP, FTP, SMTP, UDP, DHCP, DNS, ARP, NTP, DDNS, RPT(UDP only), RTSP
- User-selectable compression method (MJPEG or MPEG4)
- IP can be transmitted to a remote PC when dynamic IP is used
- A maximum of 60 images can be transmitted before and after an alarm
- Can save camera images to PC for 10 minutes (when available HDD space is greater than 20%)

Dimensions (unit:mm)



DCDi (Directional Correlational Deinterlacing)

DCDi can send interlaced video signals corresponding to the conventional analog broadcasting method and can save them in the form of a file. DCDi provides sharp noiseless images for videos with high movement by compressing the moving images and converting them into progressive video after digitally processing the noise generated by the time difference between fields.

Before Applying DCDi

After Applying DCDi

Smart Viewer

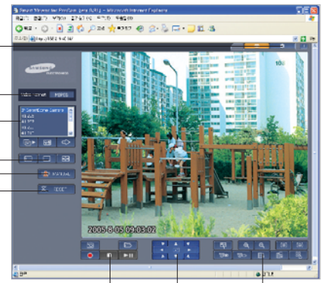


Image File Size by Resolution

Quality Level	4CIF(704X480)		VGA(640X480)		CIF(352X240)	
	MPEG4	MJPEG	MPEG4	MJPEG	MPEG4	MJPEG
Very High	27 KB	35 KB	23 KB	30 KB	11 KB	12 KB
High	21 KB	29 KB	18 KB	25 KB	9 KB	10 KB
Normal	15 KB	26 KB	13 KB	21 KB	7 KB	9 KB
Low	8 KB	23 KB	6 KB	19 KB	4 KB	8 KB
Very Low	5 KB	20 KB	3 KB	17 KB	2 KB	7 KB

* The file sizes are not absolute values and can vary according to the complexity of images. The values in this table are transmission averages for complex images.
* The MPEG4 item is of the average size that has added I and P frames.

Specifications

Model		SCC-C6475
1. Camera Section		
Broadcasting Method		NTSC Standard : 525Lines, 30Frames/sec
Imaging Device		1/4" 410K Pixel Ex-View CCD
Effective Pixels		768(H) x 494(V)
Scanning Method		2:1 Interlace
Scanning Line	Horizontal	15.734Hz(INT) / 15.750Hz(L/L)
Frequency	Vertical	59.94Hz(INT) / 60Hz(L/L)
Synchronization Method		Internal/Line lock
Horizontal Resolution		480 TV Lines
Signal Output		VBS 1.0Vp-p (75 Ohm, Composit)
S/N Ratio		50dB
Minimum Scene Illumination		0.002Lux (Sens Up 160x)
Pan/Tilt	Manual Pan Speed	0.1 ~ 180°/sec (64 steps)
	Manual Tilt Speed	0.1 ~ 90°/sec (64 steps)
	Preset Pan Speed	400°/sec
	Preset Tilt Speed	200°/sec
	Pan Operation Range	360°(endless)
	Tilt Operation Range	0°~ 180°(Digital Flip)
	Number of Auto Pan Settings	4
	Number of Presets	128
	Number of Pattern Settings	3(30sec x3)
Lens	Zoom Ratio	220x(22x Optical, 10x Digital)
	Focal Length	3.6 ~ 79.2mm
	Aperature Ratio	Tele: F3.7, Wide: F1.6
	Viewing Angle	Tele: 2°3'(H) x 1°7'(V), Wide: 47°9'(H) x 36 9'(V)
Functions	Wide Dynamic Range	Off/On(128X)
	Day & Night	Color/BW/Auto/EXT
	Motion Detection	Off/On(Area/Sensitivity Setting)
	High Speed Shutter	Yes(Off ~ 1/10K)
	Sens Up	Off/Auto(2x ~ 160x)
	PIP	Off/On
	BLC	Off/On(Area Setting)
	AGC	Off/On
	Line lock	Yes
	Camera ID	Max.20 Characters
	White Balance	ATW/AWC/Manual
	Privacy Zones	Possible to Set 12 Zones (Mosaic)

2. Network & Server Section		
Operation Environment	Server	Embedded Linux : Support
Imaging Device	Client	OS : Win 2k/XP : Support
		CPU: PentiumIII 1GHz Higher
		Memory: 256Mb Higher
		Graphic Accelerator: DirectX 8.1 or Higher
Compression Method		MPEG4 / MJPEG (Default: MJPEG)
Hardware	Flash memory	8 Mbyte
	OS	Embedded Linux
	SDRAM	32Mbyte
	Operating Temperature	0°C ~ +40°C
	Dimensions	93(H) x 61(W) x 43(D)mm
Network	Ethernet	10/100BaseT
	Network Protocol	DHCP, UDP/IP, HTTP, FTP, SMTP, RTP/RTSP, NTP
	DDNS	Notification Support for Dynamic IP
	ADSL	Only PPPoE
	Image Transmission Protocol	UDP(Multicast, Unicast)
Image Resolution		4CIF : 704x480, VGA : 640x480(Default), CIF : 352x240
Image Quality		Very High, High, Normal, Low, Very Low
Performance	MJPEG	4CIF : Max. 25 fps, VGA : Max. 25 fps, CIF : Max. 30 fps
	MPEG4	4CIF : Max. 25 fps, VGA : Max. 25 fps, CIF : Max. 30 fps
Number of Connections	MJPEG	Unicast: Maximum of 10 Users, Multicast: Maximum of 20 Users
	MPEG4	Unicast: Maximum of 10 Users, Multicast: Maximum of 20 Users

Alarm Control (only supporting MJPEG)	FTP, SMTP	Image Transmission from an Alarm (FTP or SMTP)
	Pre-Alarm	Image/sec : Max. 5 images (Max. Total 60 images)
		Buffering Time : Max. 60 sec
	Post-Alarm	Image/sec : Max. 5 images (Max. Total 60 images)
		Buffering Time : Max. 60 sec
Recording		Max. 10min Recording (When Available HDD Space is Greater than 20%)
IP Transmission		FTP, SMTP : IP Address Transmission for Dynamic IP (FTP or SMTP)
IP Installer		IP Installation Function (Supporting XP and Windows 2000)
Software Upgrade		Upgrade Using the Web Browser

3. Viewer Section	
Login Connection Class	4 Levels (Guest, Administrator, Operator and User)
Security	IP filtering
Time Setup	Setting through the NTP Server of Internet
PTZ Control	Auto Pan, Preset, Scan Function Support
Screen Switching	1Ch / 4Ch
Viewer Change	Logo Image, Logo Link
Logo and Banner Changeable by User	Banner Image, Banner Link
R&D Support	Providing SDK

4. ETC. Section		
Input/Output	Network	RJ 45
	Alarm Input	4 NO/NC(5mA Sink)
	Alarm Output	3 (2 DC24V 40mA Open Collector 1 Relay)
	Power	Terminal Block(3-pin)
Operating Temperature		-10°C ~ +50°C
Operating Humidity		Less than 90%
Power Requirment		AC24V, 60/50 Hz
Power Consumption		25W
Weight		1,700g
Dimensions		159.5(ø) x 177(D)mm

Dual Codec 1Ch Video Encoder

SNT-1010

Features

- Transmits up to a maximum of 30 high-resolution (D1 class) images
- Dual codec support (MPEG-4 & M-JPEG)
- Built-in 3-dimensional noise filter
- Alarm image recording (for as long as 30 seconds)
- UPnP (universal plug & play)
- Motion detection

File Size by Video Format

MPEG/30ips

	File Size (Bytes/sec)				
	Very High	high	Normal	Low	Very Low
D1	767279	606429	530528	392288	269216
VGA	672064	590304	460896	337696	239200
CIF	194688	153888	121184	99520	68096
QCIF	45568	38208	30784	23744	16128

MPEG/30ips

	File Size (Bytes/sec)				
	Very High	high	Normal	Low	Very Low
D1	440096	439616	425696	347360	300800
VGA	421312	400704	337024	306368	293532
CIF	182336	167264	156960	143936	96288
QCIF	83616	70304	56192	54648	48928

2-Way Audio Function

Remote video and voice can be monitored by connecting an external microphone and speaker. Communication with a person at a remote site is possible through the bi-directional voice input/output function.

Convenient Installation

UPnP (Universal Plug & Play) : When this product is installed onto an IP router that supports the "UPnP Auto Port Mapping", the user can perform port-mapping automatically by using the UPnP function.
Auto Local IP Setting : This allows users new to a network setup to easily install the product with minimal input.

Event Recording Function (built-in memory)

Event Recording Function(built-in memory)If an event occurs after the alarm or motion detection function has been set, 60 JPEG images are saved to the built-in SNT-1010 memory for up to 30 seconds before and after the event and these are transmitted to an e-mail address or FTP server.

Number of Images Transmitted Per Second		1 image	2 images	5 images
Max. Saving Time	Pre	30 seconds	10 seconds	5 seconds
	Post	30 seconds	10 seconds	4 seconds
Max. Number of Transmitted Images		**60 images**	**60 images**	**50 images**

Remote Image Monitoring and Recording

Remote images can be monitored and recorded in real-time through a web browser. Monitoring can be done by connecting as many as 4 SNT-1010 devices on one screen through the viewer provided and images can be recorded for as long as 10 minutes to a remote PC.

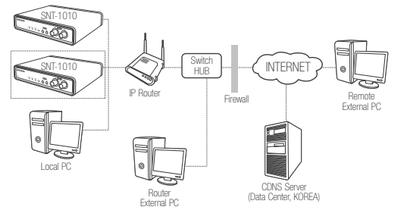
Built-in 3-Dimensional Noise Filter

Through its powerful 3-dimensional noise filter (Video Signal Noise Reduction IC), this product has improved compression efficiency and image quality by removing noise (a 40% improvement outdoors, and about 20% in an indoor environment).

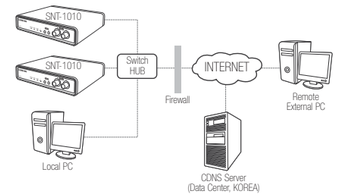
Network Construction Diagram

LAN Environment

IP Router Connection

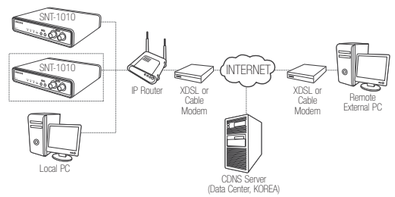


Direct IP Router Connection

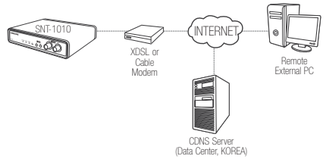


XDSL/Cable Network Environment

IP Router Connection



Direct IP Router Connection



Dimensions (unit:mm)

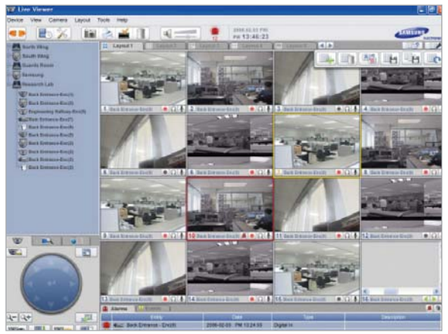
Specifications

Model		SNT-1010
Hardware	CPU	32bit RISC
	Main Memory	SDRAM 32Mbytes
	Flash Memory	16Mbytes
Operating Environment	Client PC	Windows XP/Windows 2000 Pro
	Explorer / Direct X	5.0 or Higher / 8.1 or Higher
Video	Input/Output	1Composite / 1BNC(Loop Through Out)-Auto Termination
	Compression Method	MPEG-4, M-JPEG
	Resolution	D1, VGA, CIF, QCIF
	Frame Speed	30, 15, 7.5, 3, 1 fps
	Image Quality	4 Levels (Very high, High, Normal, Low and Very low)
Audio	Input/Output	Mono 1Ch(3.5 mm jack) / Mono 1Ch(3.5 mm jack)
	Bi-directional Audio	Full Duplex
	Compression Method	G.711, 64kbps 8KHz Sampling
Network	Ethernet	10/100 Base-T
	Protocol	TCP, UDP, NTP, HTTP, DHCP
	Streaming	TCP, UDP(Unicast, Multicast)
	UPnP	Supporting Auto Network Setup
	DDNS	Supporting Samsung DDNS and Other DDNS
Motion Detection	Sensitivity Setting	High, Normal, Low
Alarm	Input/Output	4Input(5 mA sink) / 1Output(24V DC 40mA Max)
	Relay Output	30VDC 2A, 125VAC 0.5A Max
Alarm Event (M-JPEG)	Recording	Pre-Alarm: 5, 10, 15, 30sec / Post-Alarm: 5, 10, 15, 30sec
	Alarm Input	Image Transmission: FTP, E-mail/Notification: Viewer, File Server, Alarm Output
	Video Loss	Image Transmission: FTP, E-mail/Notification: Viewer, File Server, Alarm Output
	Motion Detection	Image Transmission: FTP, E-mail/Notification: Viewer, File Server, Alarm Output
	Schedule	Image Transmission: FTP, E-mail
Recording	REC/Playback	Max.10Min (When a minimum of 20% HDD space is available)
IP Transmission	Dynamic IP Transmission	SMTP(E.mail), FTP
IP Installer		IP Setup Function Support (Windows XP/2000)
Software Upgrade	Firmware Upgrade	Upgrade Using the Web Browser
Login Class	4-Level Setup	Administrator, Operator, User and Guest
Time Setup		NTP, Time Zone and Summer Time
PTZ Control	Function	Auto Pan, Preset, Scan and Power PTZ Functions Supported
	RS485	Half/Full Duplex
Viewer Change		Logo and Banner Changeable
R&D Support		SDK Provided
Operating Temperature		0°C ~ +40°C
Operating Humidity		20% ~ 85% RH
Power Requirment		DC8.4V(External Adaptor)
Power Consumption		5W
Dimensions		160(W) x 33(H) x 136(D)mm
Weight		0.42Kg

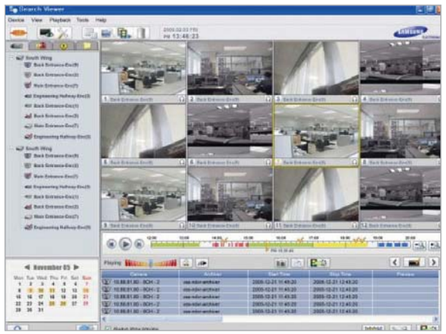
Network Integration Viewer **S/W**

NET-i™ Professional 1.0

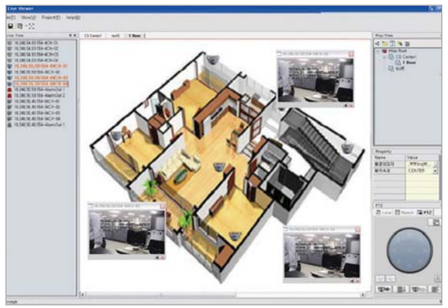
- Dual monitor support(up to 32ch live monitoring simultaneously)
- Max.8ch schedule recording into user PC
- Max.32ch manual recording at dual monitor mode
- Search/playback based on date/time, alarm event and bookmark
- Powerful E-map tool(viewer, editor) support
- Full pan, tilt, zoom control support for speed dome camera
- Connection up to 250 devices simultaneously
- All Samsung IP cameras, encoders and DVRs support
- MPEG4, MJPEG decoding
- D1, mega pixel resolution support



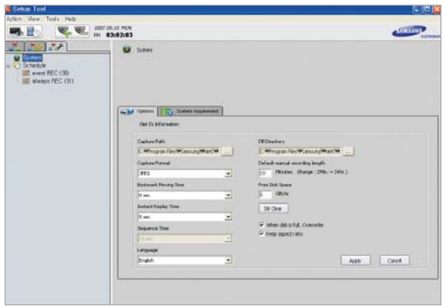
• Live Viewer



• Search Viewer



• E-Map Tool



• Setup Tool

Controller

CONTROLLER

SSC-1000_104
SSC-5000_105

System Controller
SSC-1000

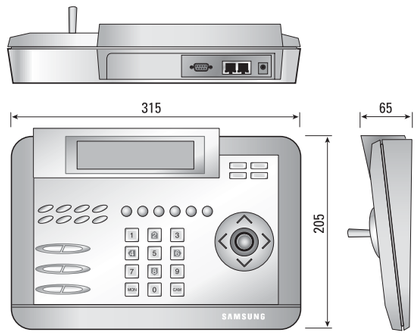
Features

- Long-range control (max: 1.2km) through the RS-485 communication
- Smartdome camera (SCC-C6407, C6405, 643A, 641), built-in zoom lens camera (SCC-C4207, C4205, C4203A, C4201), receiver unit (MRX-1000) control
- Up to 128 smartdome cameras can be controlled at once
- Multiple system controllers can be used (up to 8 units)

Specifications

Model		SSC-1000
Communication Port	Signal	RS-485
	Connector-Type	Modular-Type x2, D-Sub x1
	Baud Rate	4,800/9,600/19,200/38,400 bps
Display	LCD	20X4 Line
	LED	Menu, Preset, Pattern, Scan, Auto-Pan, Reset(Alarm)
Switching & Control	Pan/Tilt & Lens Control	Pan : Left/Right
		Tilt : Up/Down
		Iris : Open/Close
		Focus : Far/Near
		Zoom : Tele/Wide
		Preset, Auto pan, Scan, Pattern
	External Device Control	Aux1, Aux2, Aux3, Aux4
Power Requirment		DC9V, 600mA
Weight		1.1Kg
Dimensions		315mm(W) x 65mm(H) x 205mm(D)

Dimensions (unit:mm)



TFT Color LCD Touch Screen System Keyboard
SSC-5000 NEW

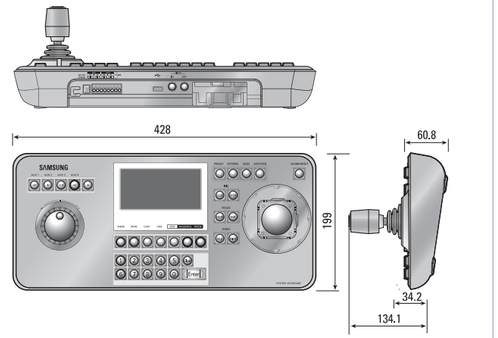
Features

- Dome camera & DVR control
- 4.3" TFT color LCD touch panel
- 3D joystick (pan / tilt / zoom control)
- Jog shuttle (DVR playback control)
- Pan/tilt & lens control (iris, focus, zoom)
- Multiple camera protocol support
- 2 ports RS-485 control interface
- USB 2.0 interface for S/W upgrade

Specifications

Model		SSC-5000
Communication Port		Interface
Display	LCD Panel	4.3" TFT LCD Panel + Touch Panel
		Effective Display Area : 95.040(H) x 53.856(V)mm
		Number of Dots : 1440(H) x 272(V)
		Dot Pitch : 66.0(H) x 198.0(V)
	LED	Monitor, Camera, DVR
Switching & Control	Pan/Tilt & Lens Control	Pan : Left/Right, Tilt : Up/Down
		Iris : Open/Close, Focus : Far/Near
		Zoom : Tele/Wide
		Preset, Auto Pan, Scan, Pattern
	DVR Control	SW : RW, Stop, Play, FF, Rec
		Jog/Shuttle : Forward/Reverse
		Play/Reverse Play/FF/RW
Power Requirment		DC12V
Weight		1.415Kg
Dimensions		428(W) x 137(H) x 199(D)mm

Dimensions (unit:mm)



EZ View

EZ View

SMT-190DN/SMT-190DP_107

19" LCD Built-in with DVR, 2 Weather Resistant Cameras, 2 Night Vision Cameras

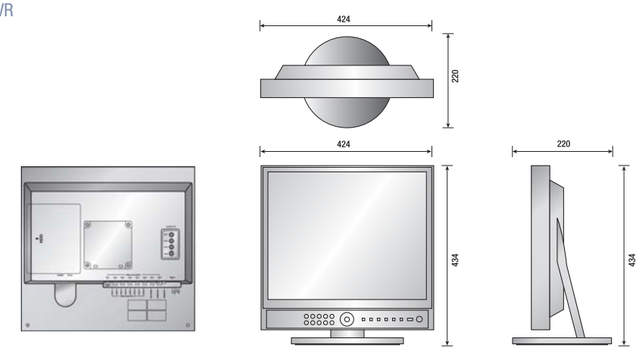
SMT-190DN/SMT-190DP

Features

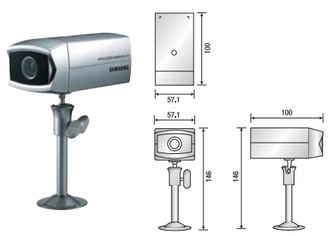
- 19" AML LTM190EX-L31 LCD with 8ch (BNC/RJ-11) built-in DVR
- 8 channel video& audio time-lapse recording capability
- High picture quality : MPEG4
- Remote monitoring and control through network (LAN)
- Various recording (normal, schedule, motion, alarm)
- Live viewing/recording during playback (triplex)
- Various network environments (TCP/IP, PPPoE, DDNS)

Dimensions (unit:mm)

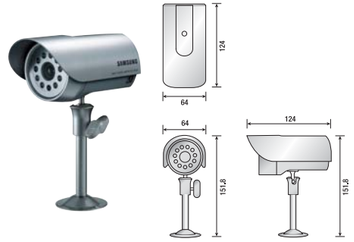
19" LCD with Built-in DVR



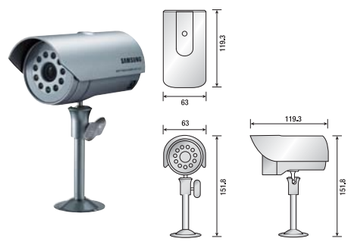
Weather Resistant Camera : SOC-C120



Night Vision Camera : SOC-N120



Night Vision Camera(Metal) : SOC-N121



Specifications

Model		SMT-190D(N)(P)	SMT-190DK(P)
Operation System		Linux	
Video	Video System	NTSC/PAL	NTSC
	Video Input	VGA : 1 EA	
		BNC Type : 8 EA	
		DIY Camera(RJ-11) : 8EA	
	Video Output	Composite 1 Channel(CVBS)	
	Display Mode	Single, Multi Screen(4, 9), PIP, Sequence, Freeze,Digital 2x Zoom	
	Display Horizontal Resolution	450 TV LINE (Live Full Mode)	
	Sequence Event List	Select between 0 sec to 60 sec Recoder Time, Alarm/Motion, Power, Loss Ch	
	Function	Zoom, PIP, Sequence, Freeze, Power Save, Display Mode	
Audio	Audio Input	Mono 8Channels : Camera 8 Ch (RJ-11)	
		-For DIY Camera MIC.	
		4 Channel Input, RCA Type	
	Audio Output	Mono 1 Channel	
Alarm/Motion	Input	Alarm Inputs(8 Cameras)	
	Output	1(Terminal Jack), A/O (HOT, COLD) : Relay Active	
	Alarm Reset	1(Terminal Jack), A/R (Alarm Reset) : Open Collector	
		"L" Level, Pulse Width =150ms or Above	
	Pre Alarm	OFF, 1sec, 2sec, 3sec, 4sec, 5sec	
	Duration	5sec ~ 59sec, 1M, 2M ~ 30M	
	Buzzer	Yes	
	Motion Detection	Each CH	
		Level : High, Normal, Low	
Network	Remote Viewer	Multi Viewer(Favorite function) -MAX 9 Division	
		Use Exclusive Codec for Network Transmission -No Dependency with the Recording Condition	
		A/V Stream Transmit Protocol -TCP/IP	
		Using DDNS Server, Dynamic IP Connection	
		Live Monitoring	
		Record in Remote PC.	
	Compression	MPEG4-I	
	Network	Supports 10/100Base-T	
	Network Protocol	TCP/IP, DHCP, PPPoE, DDNS	
	PC Environment	Windows 2000, Windows XP, Windows NT, Windows VISTA	
	Remote Monitoring Speed	Average 2Mbps Bandwidth	
	PC Backup	Live Image Recording, Play back by Viewer	
	Remote Searching	Date/Time, Event List Search	
	Snap Shot	1 Snap Image Recording	
	Security	Password / User Name Protection	
	E-Mail sending	Alarm Occure E-mail(0.5sec/5Image/5Recipient)	
	Web Browser	Internet Explorer 5.5 up	
	Remote Function Control	Single/Quad Display Control, Sequence, Large/Small Display	
	Max # of connections	Max 10 ; 4 Guarantee	
REC/Play /Searching	Video REC/PB Speed	60ips	
	Video CODEC	MPEG4	
	Audio CODEC	G.723	
	Simplex/Duplex	Duplex	
	Video REC CH Number	8Ch Mode	
	Display Speed	7.5ips/Ch	
	REC Mode	Time Lapse, Event(Alarm,Motion),	
		Schedule(Date/Time)	
	Play Speed	-64, -32, -16, -8, -4, -2, 0(Pause),	
		Play, 2, 4, 8, 16, 32, 64	
	Recording Capability Time	48 hours(8CH Real time) Time Lapse Mode : Max 1625 hours(8Ch Mode)	
	Video Record Resolution	CIF:60ips	
	Search Mode	Recoder Event Search, Alarm/Motion Event Search, Date/Time Search	

Model		SMT-190D(N)(P)	SMT-190DK(P)
Password		On/Off	
Remote Controller		Yes	
Storage	HDD	250GB	
BACK UP		USB 2.0 I/F : Front 1Port - Memory	
CRT Panel	Inch	19" AML LTM190EX-L31	
	Display Type	SXGA a-Si TFT-LCD	
	Resolution (HxV)	1280 X 1024	
	Brightness(cd/m²)	300	
	Contrast	1,000:1	
	Response Time	5msec	
	Viewing Angle Degree	80/80/80/80	
	Active Display Area	376.32mm(H) x 301.056mm(V)	
	Pixel Pitch	0.294mm(H) x 0.294mm(V)	
Monitor Feature	Scan System	Progressive	
	Screen Mode	4:3	
	2D Comb Filter	YES	
	Noise Reduction	YES	
	PIP	YES	
	Freeze	YES	
	Under Scan	YES	
	HAS Stand (Lift/Tilt/Swievel)	0 ~ 100mm / 0°~ 23°/ -175° ~ +175°	
Power	Power	AC120V, 60Hz	
Audio Output	Audio Output	2 W	
Package Composition	Product Composition	Night Vision Camera SOC-N120(P) : 2EA	NONE
		Weather Resistant CameraSOC-C120(P):2EA	
		60 ft Cable	
Operating Temperature		0 °C ~ 40 °C	
Storage Temperature		-20 °C ~ 60 °C	
Operating Humidity		20% ~ 85% RH	
Storage Humidity		20% ~ 95% RH	
Dimensions	Net	424(W)x220(D)x434(H)mm	
	Package	517(W)x382(D)x507(H)mm	517(W)x262(D)x507(H)mm
Weight	Net	7.95kg	7.95kg
	Package	14.75kg	10.75 kg